#### **REGISTRATION INFORMATION**

The pages that follow contain scheduled training offerings for Fiscal Year 2005 (October 2004 - September 2005) as well as a brief description of all Environmental Health Support Center (EHSC) training courses. Additional information is available by calling 505-248-4258 or through the Environmental Health Support Center Web site at:

#### http://www.opheng.ihs.gov

Request course registration as follows:

**Contact your Area Training Coordinator:** A listing of Training Coordinators for each Indian Health Service Area is provided on the following page. These individuals will provide registration assistance to both IHS, tribal and other governmental employees.

**By the Internet:** Nomination for Training may be requested through the EHSC web site as indicated above. Go to the EHSC training section and fill out the online registration request form. The request form will be routed to the appropriate Area Training Coordinator.

These requests will be consolidated with other training requests from the Area and submitted to EHSC.

EHSC does not provide for direct registration of students. All requests should be routed through the Training Coordinator for your respective Area, organizational unit or agency.

A registration confirmation and instructions for attendance at the course will be mailed to all approved training registrants approximately 45 days prior to the training.

#### IHS AREA EHSC TRAINING COORDINATORS

#### Aberdeen Area IHS

Jill Bourland, Secretary 115 4<sup>th</sup> Ave. SE Aberdeen, SD 57401 605-226-7599

#### **Anchorage Area IHS**

CMDR Ed Lohr, DSO Manger 1901 S. Bragaw Suite 200 Anchorage, Alaska 99508 907-729-3527

#### **Billings Area IHS**

George Allen, Assoc. Director 2900 4<sup>th</sup> Ave. North, Box 36600 Billings, Montana 59103 406-247-7082

#### Nashville Area IHS

Cindy Yahola-Gallegos, Secretary 711 Stewarts Ferry Pike Nashville, TN 37214 615-736-2503

#### Oklahoma City Area IHS

Linda Zientek, Šecretary, DEHE 3625 NW 56<sup>th</sup> St, 5 Corp. Plaza Oklahoma City, Oklahoma 73112 405-957-3874

#### **Portland Area IHS**

Betsy O'Neill, Secretary 1220 SW 3<sup>rd</sup> Ave, Rm. 476 Portland, Oregon 97204 503-326-2014

#### **Dallas Engr. Services**

CMDR Jacqui Parker 1301 Young St. Rm. 1071 Dallas, TX 75202 214-767-8521

#### **Headquarters IHS**

Dora Old Elk, Secretary IHS Headquarters East 12300 Twinbrook Parkway, Suite 600A Rockville, MD 20852 301-443-1247

#### Albuquerque Area IHS

Jerry Lee, Injury Prevention Specialist 5300 Homestead Rd. NE Albuquerque, New Mexico 87110 505-248-4597

#### Bemidji Area IHS

Louis Erdrich, Director OEHE 522 Minnesota Ave, NW Bemidji, Minnesota 56601 218-759-3363

#### California Area IHS

CAPT Paul Young, Director, DEHS 1825 Bell Street, Suite 200 Sacramento, California 95825 916-566-7023

#### Navajo Area IHS

CAPT Charles Dowell, Director OEHE P.O. Box 9020 Window Rock, AZ 86515 928-871-5852

#### Phoenix Area IHS

CAPT Alan Croft, Assoc. Dir. OEHE 40 North Central Ave., Suite 600 Phoenix, Arizona 85004 602-364-5068

#### **Tucson Area IHS**

CMDR Donald Williams, IP Specialist 7900 S. J Stock Road Tucson, Arizona 85746 520-295-2580

#### Seattle Engr. Services

Jean Johnson, Secretary 2201 6<sup>th</sup> Ave., MS 24 Seattle, Washington 98121 206-615-2453

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#### ENVIRONMENTAL HEALTH PROGRAM MANAGEMENT

#### INTRODUCTION TO MANAGEMENT SKILLS: (10500)

The one-week introductory is designed to provide students with basic management skills such as: leadership, interpersonal effectiveness, problem solving, group dynamics, and time management. This is a highly interactive course that emphasizes understanding personality types and group interactions as essential skills for program managers. This is a prerequisite to the advanced course.

Who should attend: Program managers and supervisory personnel of all disciplines.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- How to identify and understand work styles
- Learn to apply conflict management techniques
- Understanding your own management style
- Learn effective time management skills
- Understanding group dynamics

Date and Location: Not offered in fiscal year 2005

#### **ADVANCED MANAGEMENT SKILLS: (10600)**

The one-week advanced management course is designed to provide students with additional management skills. This course builds on concepts developed in the Introduction to Management Skills course, which is a prerequisite to registration in this course.

Who should attend: Program managers and supervisory personnel of all disciplines.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** See objectives above. Training continues to build on the skills introduced in the

introductory course.

Date and Location: Not offered in fiscal year 2005

#### T1-T3 WORKSHOP FOR SANITATION FACILITIES CONSTRUCTION: (11000)

This three-day seminar will analyze the new amendments to Public Law 93-638. The options available to tribes under the law for a Title I contract or a Title III compact are covered in depth with examples presented for both options and their respective impacts to the Sanitation Facilities Construction Program. The seminar is intended to provide a complete analysis of the tribal/federal relationship under these regulations. The course is designed for tribal and IHS personnel involved in 93-638 construction activities.

Who should attend: Program managers and supervisory personnel of all disciplines.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Understanding Public Law 93-638
- Understanding implications of 93-638 responsibility assumptions
- Understanding the negotiation process
- Identify the players
- Understanding the Sanitation Facilities Construction Program

Date and Location: Not offered in fiscal year 2005

#### **ENVIRONMENTAL HEALTH ORIENTATION: (10000)**

This is a five-day course designed for engineers and sanitarians that are relatively new to the Indian Health Service and the Office of Environmental Health and Engineering (OEHE) Program. The course covers program philosophy, policy, administration and scientific/technical material basic to the OEHE program.

**Who should attend:** IHS and Tribal personnel new or with limited experience working with the Office of Environmental Health and Engineering programs of the Indian Health Service.

**Course Length:** 5 days

**Continuing Education Units**: Not available

**Objectives:** 

- Develop and overview of OEHE programs
- Meet national program managers and other OEHE personnel
- Develop networking relationships with peers from other IHS Areas
- Develop basic skills essential to OEHE program operations

Date and Location: Not offered in fiscal year 2005

#### MID-LEVEL MANAGEMENT: (18500)

This three-day course is intended for engineers and sanitarians at the district, assistant chief, or similar mid-management level. Elements of IHS organizational structure, policy, personnel, supervision and management techniques that will prove useful as these individuals move into higher-level positions within IHS are included. This training is conducted in or near the Rockville, Maryland Area. An orientation to the offices within IHS Headquarters in the Parklawn Building is included.

**Who should attend:** IHS and Tribal personnel five or more years of experience working with the Office of Environmental Health and Engineering programs of the Indian Health Service.

This course is particularly targeted toward District level and above personnel who have supervisory and program oversight responsibility.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Review program guidelines with national program managers
- Develop working knowledge of Headquarters operation and personnel
- Understand IHS personnel regulations and supervisory requirements
- Develop advanced skills essential to OEHE program operations

Date and Location: Not offered in fiscal year 2005

SFC DATA SYSTEMS: (18600)

This course presented by the Sanitation Facilities Construction Branch, Headquarters provides an overview of the structure and operation of the Sanitation Tracking and Reporting System (STARS). This training is recommended for staff having responsibility for data entry and review of STARS information on behalf of their Area.

Who should attend: Sanitation Facilities Construction Program managers and data entry staff.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Review STARS data system function and structure
- Understand data entry requirements
- Provide feedback to national program mangers on system needs
- Develop custom report generation skills

Date and Location: April 12-14, 2005 Phoenix, AZ

#### **GOVERNMENT CONTRACT LAW: (16200)**

Presented by Georgetown University, this course discusses basic elements of government contract law using instructors with extensive legal backgrounds in government contracting. Practical examples are utilized throughout giving students a broad exposure to actual contract litigation.

Who should attend: Government contract managers and representatives

**Course Length:** 4 days

Continuing Education Units: Not available

**Objectives:** 

- Provide an overview of the government contract process
- Understanding bonds liens and insurance
- Develop skills for writing effective specifications

- Understanding changes and changed conditions
- Understanding sub-contracting requirements
- Understanding delay, suspension and acceleration requirements
- Review contracting representative responsibilities
- Understanding breeches and disputes

Date and Location: Not offered in fiscal year 2005

#### **ENVIRONMENTAL LAW AND COMPLIANCE: (16100)**

This course offers attendees a description and how to comply with their requirements of the major environmental laws. The curriculum is designed for those who are new to the environmental field, or who need a comprehensive review of the major laws and regulations. Topics include: Environmental Law System, Environmental Liabilities, Water Pollution Control, Air Pollution Control (Clean Air Act Compliance, RCRA/Hazardous Waste CERCLA/Superfund, EPCRA/SARA Title III, NEPA, TSCA/OSHA, Underground Storage Tanks, Management Strategies, Inspections/Audits.

Who should attend: IHS and Tribal personnel with environmental compliance responsibilities

within their organizations Course Length: 4 days

Continuing Education Units: Not available

**Objectives:** 

- Increase your understanding of environmental regulations
- Understand how to plan effective compliance programs
- Practice environmental strategies in a classroom setting
- Understand your responsibilities and liabilities

Date and Location: Not offered in fiscal year 2005

#### **INTRODUCTION TO ARCVIEW GIS: (16390)**

This two-day course gives the hands-on experience and conceptual overview needed to take full advantage of ArcView's display, editing, analysis and presentation mapping functions. Class participants become familiar with the components of the ArcView GIS interface and learn how documents called views, tables, charts and layouts are used to display and work with different kinds of information.

Who should attend: IHS and Tribal personnel with environmental compliance responsibilities

within their organizations **Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

• Display tabular and feature data

- Work with georeferenced spatial data
- Query features using logical expressions
- Associate table data to maps

Date and Location: Not offered in fiscal year 2005

#### **CONSTRUCTION PROJECT MANAGEMENT: (17000)**

This training provides exposure to private industry concepts used in defining a scope of work, establishing costs estimates & construction budgets, quality control, field communication & coordination, on-site control, labor & work in place, job cost & productivity reporting, freight coordination & tracking, resource allocation, material take offs, procurement, and construction scheduling. In addition, this course explores the relationship between IHS/Tribal governments and various contributing agencies.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

• Evaluate job cost accounting vs. regular

- Establish a work breakdown structure with codes
- Create work plans, estimates, schedules, and reports
- Evaluate projects, track, forecast, and plan

Date and Location: Not offered in fiscal year 2005

**NEPA:** (16000)

A workshop to bring NEPA coordinators and project managers up to date on the latest NEPA rules and regulations. We will discuss the Agency's methods for NEPA review and any exclusion that exist. A discussion is planned on NEPA coordination with other Agencies (EPA, USDA, HUD).

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Manage the NEPA process to comply with the intent of the law
- Implement CEQ regulations and agency requirements
- Review and write EAs, FONSI, EISs, RODs, that comply with NEPA and agency guidelines

Date and Location: December 14-16, 2004 Anchorage, AK
July 19-21, 2005 Phoenix, AZ

#### **INJURY PREVENTION**

#### INTRODUCTION TO INJURY PREVENTION: (11500)

This introductory course introduces participants to the core components of the public health approach to preventing injuries among American Indians and Alaska Natives. Throughout the course, participants will work in small teams to address specific injury issues in fictional communities based on actual Tribal communities throughout the country. The course will culminate in a mock Tribal Council activity, during which team members will present information about their assigned community and their ideas for addressing the injuries in that community.

**Who should attend:** tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

**Course Length:** 3 ½ days

**Continuing Education Units:** 1.8

**Objectives:** 

Participants will gain introductory knowledge and skills related to:

- Interpreting injury data
- Identifying causes of injuries
- Working with injury coalitions to plan for the implementation, evaluation, marketing and advocacy of injury prevention programs

Date and Location: October 4-7, 2004 Farmington, NM

May 17-20, 2005 Phoenix, AZ

#### **INTERMEDIATE INJURY PREVENTION: (12500)**

This course builds upon the knowledge and skills addressed in the Introduction to Injury Prevention by delving into the ways in which what is known about injuries and prevention strategies can be used in the public health approach to preventing injuries among American Indians and Alaska Natives. Following a review of the basics of data interpretation, coalition building, program planning, evaluation, marketing and advocacy, participants will gain detailed understanding and skills within several topic areas. These include complex causes of injuries, such as the influence of alcohol on injuries, techniques for maintaining coalitions through challenging circumstances, web-based data identification tools, basic data collection techniques, process and impact evaluation methods, and basic PowerPoint skills. The course will include multiple hands-on community- and computer-based activities. Introduction to Injury Prevention is a prerequisite for this course.

**Who should attend:** tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

Course Length: 3 ½ days

**Continuing Education Units: 1.8** 

#### **Objectives:**

- Learn how alcohol influences injuries
- How to maintain a coalition
- Become familiar with web-based data identification tools
- Become familiar with basic data collection techniques
- Learn process and impact evaluation methods

Date and Location: December 6-10, 2004 Oklahoma City, OK

#### **ADVANCED INJURY PREVENTION: (12800)**

This course builds upon the knowledge and skills addressed in the introductory and intermediate courses in this series by focusing on the ways in which data, coalitions, program planning, evaluation, marketing and advocacy can be integrated in a well-managed program to prevent injuries among American Indians and Alaska Natives. Topic areas to be addressed during this course include financing injury prevention programs; collaborating with the media; developing injury prevention reports and presentations; conducting formative and outcome evaluation; analyzing and interpreting data; developing short- and long-term strategic plans; and ensuring institutionalization of injury prevention projects in the community. The course will include hands-on skill-building activities designed to be transportable to participant home communities. Prerequisite: Introduction to Injury Prevention.

Who should attend: tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

**Course Length:** 3 ½ days

**Continuing Education Units:** 1.8

**Objectives:** 

- Developing an Injury Prevention Program budget
- Collaborating with the various media outlets to promote an Injury Prevention Program
- Develop injury prevention reports and presentations
- Developing short- and long-term strategic plans

Date and Location: February 14-18, 2005 Albuquerque, NM

#### **INTENTIONAL VIOLENCE PREVENTION: (12900)**

This course will focus on practical applications of existing knowledge to prevent intentional injuries in American Indian/Alaska Native communities. In addition to an overview of intentional violence, the primary topics this year (2004) will be intimate partner violence and suicide. There will be a combination of lectures, class exercises, small group work, and presentations by tribal and IHS staff who have conducted prevention projects in their communities.

**Who should attend:** Because of the multi-disciplinary nature of intentional violence prevention, we encourage enrollment by individuals from tribal and IHS programs in environmental health/injury prevention, social work, nursing, behavioral health, medicine, and education.

**Course length:** 4 ½ days

Continuing Education Units: Available

**Learning objectives:** 

For intentional injuries overall, participants will be able to:

- Define key terms;
- Describe various models of prevention;
- Identify opportunities for collaboration and partnership;
- Outline the potential roles of individuals, tribal agencies, and IHS personnel in prevention.

For each of the two-targeted intentional injuries (intimate partner violence and suicide), participants will be able to:

- Describe effective and ineffective intervention strategies and best practices for prevention;
- Discuss the importance of firearms and alcohol/substance abuse as risk factors;
- Locate resources for prevention, including curricula, technical assistance, and opportunities for program funding.

Date and Location: April 4-8, 2005 Albuquerque, NM

#### ISSUES IN INJURY CONTROL: (60000)

#### An Injury Prevention Epidemiology Fellowship Course

This is the first of the required core courses of the Injury Prevention Specialist Epidemiology Fellowship. It provides an introduction to conducting injury prevention research projects. Special emphasis is placed on hypothesis formation, choosing the correct study design, data collection, ethical considerations, and how to conduct literature reviews.

Who should attend: current members of the Injury Prevention Epidemiology Fellowship.

**Course Length:** 4 days

**Continuing Education Units:** Not available

**Objectives:** 

• Finalize Fellowship project outline

• Conduct preliminary literature review

Date and Location: Not offered in fiscal year 2005

### INJURY PREVENTION EPIDEMIOLOGY FELLOWSHIP SUMMER SESSION: (60100)

#### An Injury Prevention Epidemiology Fellowship Course

The summer session focuses on epidemiology of injuries. Fellowship participants complete three required and up to three optional graduate level courses in a formal university setting. As part of the required courses, the participants will complete a literature review or study design for their respective research projects.

Who should attend: current members of the Injury Prevention Epidemiology Fellowship.

**Course Length:** 3 weeks

**Continuing Education Units:** Not available

**Objectives:** 

• Finalize project proposal

• Consult academic instructors regarding project

Conduct additional literature review

Date and Location: Not offered in fiscal year 2005

#### INJURY PREVENTION FIELD RESEARCH: (60200)

#### An Injury Prevention Epidemiology Fellowship Course

This course is conducted through a series of field trips and workgroup exercises in different IHS Areas. Based on an identified local injury problem, student workgroups address different components of the steps toward a successful injury-prevention action plan. Intervention strategies are developed based on actual injury case histories.

Who should attend: current members of the Injury Prevention Epidemiology Fellowship.

**Course Length:** 5 days

**Continuing Education Units**: Not available

**Objectives:** 

- Fellows will have the opportunity to work on a local injury problem with host IHS or Tribal staff
- Opportunities to work on various activities such as data collection, home inspections, focus groups and intervention planning will be available

Date and Location: Not offered in fiscal year 2005

#### INJURY PREVENTION PRESENTATION SKILLS: (60300)

#### An Injury Prevention Epidemiology Fellowship Course

This is an Injury Prevention Fellowship course providing current fellows with expert guidance in the analysis and interpretation of research results. The course addresses the skills necessary to prepare a special study in a publishable format and present the findings to a professional audience.

**Who should attend:** Members of the current Injury Prevention Epidemiology Fellowship

Program.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

• Finalize a professional research paper and presentation based upon current Fellowship project

• Improve presentation techniques

Date and Location: February 1-3, 2005 Albuquerque, NM

#### INJURY PREVENTION EPIDEMIOLOGY FELLOWSHIP SYMPOSIUM: (60400)

#### An Injury Prevention Epidemiology Fellowship Course

Current Injury Prevention Specialist Epidemiology Fellows present their special projects before IHS Headquarters, Area Staff and Tribal leaders.

**Who should attend:** tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

**Course Length:** 1 day

**Continuing Education Units:** Not available

**Objectives:** 

• Injury Prevention personnel will have the opportunity to see the current Epidemiology Fellowship class present the findings of their yearlong project.

Date and Location: TBD

#### INJURY PREVENTION SPECIALIST FELLOWSHIP COLLOQUIUM: (60500)

#### An Injury Prevention Fellowship Course

Injury Prevention Specialist Fellowship graduates are invited to attend a continuing education colloquium that is offered approximately every 18 months. This program is designed to keep injury prevention practitioners current on practices in injury prevention.

Who should attend: tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

**Course Length:** 1 day

### **Continuing Education Units:** Not available **Objectives:**

• Injury Prevention personnel will have the opportunity to hear presentations given by various Injury Prevention professionals.

• The current focus of the IHS Injury Prevention Program will also be discussed to provide field staff an opportunity to be updated on the most current practices within the program.

Date and Location: Not offered in fiscal year 2005

#### INJURY PREVENTION PROGRAM PLANNING: (60600)

#### An Injury Prevention Program Development Fellowship Course

This is the first of the required core courses of the Injury Prevention Specialist Program Development Fellowship. The focus of this course is on program design, project objectives and timelines, and on effective strategies for the prevention of injuries in American Indian and Alaska Native communities. Fellows will attend case study presentations describing Injury Prevention Programs in American Indian and Alaska Native communities.

Who should attend: current members of the Injury Prevention Program Development

Fellowship Class.

Course Length: 4 days

Continuing Education Units: Not available

**Objectives:** 

- Finalize Fellowship project outline
- Conduct preliminary literature review

Date and Location: TBD

#### PROGRAM DEVELOPMENT FELLOWSHIP ACADEMIC SESSION: (60700)

#### An Injury Prevention Program Development Fellowship Course

The focus of this course will be on coalition building, action planning and program management. Fellows will be instructed how to use evaluation in project development, while participating in course components with their mentors. Fellows will also attend guest lectures given by injury prevention experts. On-campus libraries will be available for additional literature review, and Fellows will have access to local computer labs as well.

Who should attend: current members of the Injury Prevention Program Development

Fellowship Class.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

- Finalize project proposal
- Complete a draft outline of program, evaluation or marketing plan

Date and Location: TBD

#### PROGRAM DEVELOPMENT FELLOWSHIP FIELD COURSE: (60800)

#### An Injury Prevention Program Development Fellowship Course

During this course, Fellows will have the opportunity to choose from a menu of hands-on, field-based learning activities sponsored by local Tribes and/or Service Units. These sessions will be facilitated by Tribal Staff or other Fellowship instructors and will build skills directly applicable to Fellows' projects.

Who should attend: current members of the Injury Prevention Program Development

Fellowship Class.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

- The Fellows will have the opportunity to obtain specialized project skills
- Conduct various data collection exercises
- Develop/design program materials (newsletters, press releases, etc.)
- Develop coalition meeting materials
- Develop budget plans and justifications

Date and Location: TBD

## PROGRAM DEVELOPMENT FELLOWSHIP MARKETING AND ADVOCACY: (60900)

#### An Injury Prevention Program Development Fellowship Course

This course is designed to offer current Fellows an opportunity to develop their presentation and public speaking skills, as well as their report writing skills. Fellows will have the opportunity to identify financial resources and develop program budgets and grant proposals.

Who should attend: current members of the Injury Prevention Program Development

Fellowship Class.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

- The Fellows will have the opportunity to develop their presentation skills
- Improve report writing
- Conduct a grant writing exercise
- Develop budget plans and justifications

Date and Location: TBD

### INJURY PREVENTION PROGRAM DEVELOPMENT FELLOWSHIP SYMPOSIUM: (61000)

#### An Injury Prevention Program Development Fellowship Course

Current Injury Prevention Specialist Program Development Fellows present their special projects before IHS Headquarters, Area Staff and Tribal leaders.

**Who should attend:** tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

**Course Length:** 1 day

**Continuing Education Units:** Not available

**Objectives:** 

• Injury Prevention personnel will have the opportunity to see the current Program Development Fellowship class present the findings of their yearlong project.

Date and Location: TBD

#### INJURY PREVENTION COURSE INSTRUCTORS WORKSHOP: (12950)

This workshop is aimed at current and future Injury Prevention Course instructors. During this 3-day workshop, various teaching techniques will be discussed to better qualify staff to participate in the various Injury Prevention Courses, as well as providing them with the information necessary to act as a lead instructor for the courses.

**Who should attend:** Environmental health or injury prevention personnel who may participate as an instructor in any of the injury prevention courses.

**Course Length:** 3 days

Continuing Education Units: Available

**Objectives:** 

• To provide environmental health and injury prevention personnel with the latest injury prevention course materials and information on the most effective training techniques.

Date and Location: March 15-17, 2005 Albuquerque, NM

#### ENVIRONMENTAL HEALTH SERVICES

#### BASIC ENVIRONMENTAL HEALTH PRACTICES: (23500)

This is an entry-level course designed to develop and enhance practical environmental health program skills to tribal and IHS environmental health specialists and technicians. The focus of this course is to present skills and best practices in the basic components of a comprehensive environmental health program. Course topics include: surveillance, investigation, interpretation and control procedures for a variety of environmental concerns including water, solid waste, sewage, food service, vectors, institutional health, injuries, and hazardous materials.

Who should attend: IHS and Tribal environmental health personnel.

**Course Length:** 5 day

Continuing Education Units: Not available

**Objectives:** 

- Learn the basic skills and best practices for a comprehensive environmental health program
- Perform various environmental health-related hands-on activities

Date and Location: Not offered in fiscal year 2005

#### **INTRODUCTION TO EPI INFO 2003: (13000)**

This three-day introductory course is designed for those in environmental health or related fields that are involved in data gathering and analysis activities for injury prevention, safety, disease, or other surveillance programs. The course uses sample data sets to cover commonly used programs and commands in Epi Info epidemiological software.

**Who should attend:** tribal health board members, health directors, tribal council members, IHS environmental health personnel, and tribal injury prevention staff.

Course Length: 3 ½ days

**Continuing Education Units:** Not available

**Objectives:** 

- Create views (data entry screens);
- Add check coding to facilitate the data entry process;
- Construct databases from data entry screens;
- Enter data:
- Perform basic analyses using Epi Info;
- Define new variables for use in data analysis; and use Epi Map to graphically depict data.

Date and Location: November 16-19, 2004 Phoenix, AZ
June 14-17, 2005 Aberdeen Area

#### PLAYGROUND SAFETY INSPECTION CERTIFICATION: (25600)

This two-day course provides in-depth instruction on playground hazard identification and risk management. Advanced reading and ten hours of training from nationally known playground safety experts will prepare the students to sit for the Certified Playground Safety Inspector examination offered at the end of the certification course.

**Who should attend:** IHS and tribal environmental health personnel, as well as head start and/or day care center personnel.

Course Length: 3 days

Continuing Education Units: Playground Safety Inspector Certification

**Objectives:** 

• Discuss current standards used to conduct comprehensive environmental health and safety surveys of playgrounds.

Date and Location: November 3-4, 2004 Las Vegas, NV

#### FDA FOOD CODE TRAIN THE TRAINER: (26000)

This 4-day course is expected to allow the students become familiar with the most current edition of the Food and Drug Administration Food Code. It is also, expected that students completing the course will return to their Areas and train local/tribal sanitarians and inspectors, and retail establishments as appropriate, in the requirements of the Food Code. Trainers will receive a CD-ROM containing Food Code training materials and PowerPoint slides.

Who should attend: IHS and tribal environmental health personnel.

**Course Length:** 4 days

Continuing Education Units: available through instructor

**Objectives:** 

- Discuss the most current edition of the FDA Food Code, including any changes that may have been made since the last published code
- Students should be able to use the material presented in this course to train co-workers and the staff at the various retail or institutional establishments they survey

Date and Location: Not offered in fiscal year 2005

#### HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE: (14100)

This 40-hour HAZWOPER course is designed to discuss OSHA's 29 CFR 1910.120 standard. Workers exposed to hazardous substances are required to attend 40 hours of safety training. This course examines the proper health and safety procedures and personnel protection during work operations at hazardous waste sites.

**Who should attend:** environmental health specialists, tribal emergency response personnel, facilities and maintenance staff, and tribal utility operators.

Course Length: 4 ½ days

**Continuing Education Units:** 40-Hour HAZWOPER Certification

**Objectives:** 

• Understanding hazard identification and control.

- Understanding safety planning, site control, and personal protective equipment.
- Understanding site monitoring, emergency and incident response and decontamination.

Date and Location: December 13-17, 2004 Phoenix, Arizona

#### **INTRODUCTION TO EPIDEMIOLOGY: (23100)**

This introductory course will highlight the practical applications of the principles of epidemiology and how they relate to the investigation of public health problems. It will be focused on the environmental health specialist, safety officer or infection control officer whose responsibilities include epidemiological investigations in either the community or healthcare setting. Topics include: field investigations, public health surveillance, methods of control and prevention, and evaluation. Selected diseases will be discussed to emphasize the application of epidemiological principles to infectious and non-infectious diseases.

Who should attend: IHS and tribal environmental health and injury prevention personnel, and hospital safety and infection control officers.

Course length: 2 ½ days

**Continuing Education Units: 2.0** 

#### **Objectives:**

- Identify the steps necessary to complete epidemiological investigations
- Identify the Ten steps of epidemiology
- Learn basic skills necessary to utilize the Epi Info analytical software program
- Successfully complete a mock field investigation

Date and Location: Not offered in fiscal year 2005

#### CERTIFIED POOL/SPA OPERATOR'S COURSE: (25800)

In this two-day course, the students will receive instruction by a Certified Instructor specifically trained to communicate the basic skills necessary to operate a pool or spa facility. The course covers pool and spa chemistry, testing, treatment, filtration, maintenance, automatic feeding equipment and government requirements. The CPO examination is offered at the conclusion of the course. This certification is for a minimum of 5 years at which time a refresher course and/or an examination must be passed.

Who should attend: IHS and tribal environmental health personnel responsible for conducting surveys of swimming pools or spas.

**Course length:** 2 days

Continuing Education Units: Not available

**Objectives:** Students will gain a better understanding of:

- Disinfection, pH and stabilizer levels
- Safety signs and equipment
- Requirement of operational records
- Lifeguard requirements
- Clarity, bacteriological and chemical quality of pool water
- General requirements for maintaining pools clean, sanitary and in good repair
- Skimmers and their proper operation and maintenance
- Required turnover rates
- Replacement of equipment
- Backflow protection
- Lighting
- Depth marker requirements
- Pressure gauges
- Flow meters
- Maximum water temperatures

Date and Location: Not offered in fiscal year 2005

#### BASIC PLAN REVIEW: (25700)

This three-day course will provide practical information and strategies to those tasked with reviewing construction plans. Topics covered include: drawing conventions, sections, details, construction, fire rated assemblies, exit enclosures, fire rated doors, occupant loads and egress capacity. Also, travel distance, dead ends, common paths of travel, vertical openings hazardous areas, interior finishes, draperies and curtains, and fire alarm and detection. As well as sprinklers, fire extinguishers & other fire protection systems. Each student will receive a copy of the most recent version of the *NFPA Life Safety Code*.

**Who should attend:** environmental health specialists and tribal sanitarians that conduct plan reviews or comprehensive Life Safety surveys.

**Course Length:** 3 days

**Continuing Education Units:** N/A

**Objectives:** 

- Develop a basic understanding of the latest NFPA Life Safety Code
- Apply basic principles of the NFPA Life Safety Code while conducting plan reviews

Date and Location: April 26-28, 2005 Seattle, WA

#### **INTRODUCTION TO WEBEHRS: (28100)**

This course is designed to provide training on how to effectively use the Web based Environmental Health Reporting System (WebEHRS) for documenting activities as well as planning and prioritizing work. In the course, students will learn how to add and edit facility information, add survey information, upload documents into the system for reference, add esurvey data into the system and perform basic Geographic Information System (GIS) functions. This will be a hands-on course and each student should at least have basic computer skills.

Who should attend: IHS and tribal environmental health personnel

**Course length:** 1½ days

**Continuing Education Units:** 1.1

**Objectives:** 

- Students will use the WebEHRS computer program to plan and prioritize activities
- Students will be able to update, change or modify facility information
- Students will be able to update, change or modify survey information
- Students will be able to perform basic GIS functions

Date and Location: Not offered in fiscal year 2005

#### **SANITARY SURVEY COURSE: (29000)**

This course is designed to develop the capabilities of individuals to conduct an effective and comprehensive review of public water systems. The training teaches inspectors to apply basic scientific information and a working knowledge of the operation, maintenance, management, and technology of a water system to identify sanitary risks that may interrupt the multiple barriers of protection at a water system.

**Who should attend:** field staff responsible for inspecting and evaluating small water systems for sanitary risks and compliance with the Safe Drinking Water Act.

**Course length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

The training addresses the eight essential elements of a sanitary survey as defined by the EPA/State Joint Guidance on Sanitary Surveys and the interim enhanced surface water treatment rule:

- Water source, Treatment, and Distribution system
- Finished water storage
- Pumps and pump facilities and controls
- Monitoring, Reporting and data verification
- Water system management and operations
- Operator compliance with State and Federal requirements

Date and Location: June 7-9, 2005 Farmington, NM

#### BASIC WATER SKILLS COURSE: (29500)

This course is designed to expose environmental health staff to a wide range of concepts and technical information related to drinking water. Course topics will include discussions of drinking water contaminants, the Safe Drinking Water Act, water disinfection and fluoridation, water sampling and testing, cross contamination issues, and water related emergencies.

**Who should attend:** Tribal Utility Operators, Utility Board Members or Tribal Utility Managers and, field staff responsible for inspecting and evaluating small water systems for sanitary risks and compliance with the Safe Drinking Water Act.

**Course length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Students will gain a better understanding of the basic information necessary to provide technical assistance to utility operators.
- Students will be exposed to the basics of the Safe Drinking Water Act.
- Students will perform calculations associated with the treatment of water systems.

Date and Location: March 29-31, 2005 Seattle, WA

July 19-21, 2005 Albuquerque, NM

#### MANAGING RETAIL FOOD SAFETY FD2015 APPLYING HACCP PRINCIPLES TO THE INSPECTION OF RETAIL AND FOOD SERVICE ESTABLISHMENTS: (26500)

This course is designed to allow participants an opportunity to explore the various ways that risk-based inspections can be applied in retail and food service establishments. Topics will include the "process approach" to HACCP, applications of HACCP principles in routine inspection work, and assessing active managerial control of risk factors by operators through a HACCP system or other established food safety systems. While the process approach is new to many regulators, it is better designed for use in retail and food service settings than traditional HACCP approaches because it eliminates lengthy flow charting and hazard analysis for every type of food product.

**Who should attend:** IHS and tribal field staff responsible for conducting inspections of food service operations.

Course length: 3 days

**Continuing Education Units:** 1.8 (Available through FDA.)

**Objectives:** 

- Identify possible hazards associated with retail and food service operations and the control measures available to prevent, reduce, or eliminate the risks of these hazards.
- Apply the "process approach" of HACCP to routine inspections of retail and food service operations.

• Identify appropriate techniques and methods for applying HACCP principles to inspections and offering intervention strategies for controlling risks to operators (those with and without HACCP Plans.)

Date and Location: Not offered in fiscal year 2005

#### CRISIS AND EMERGENCY RISK COMMUNICATION COURSE: (16200)

This is a fast-paced, interactive course that gives participants essential knowledge and tools to navigate the harsh realities of communicating to the public, media, partners and stakeholders during an intense public health emergency, including terrorism.

Who should attend: IHS or tribal environmental health personnel.

**Course length:** 2 days

**Continuing Education Units:** 1.2

**Objectives:** 

- Students will learn how to effectively communicate to a hostile audience.
- Students will receive information as to how to effectively relate to the community to reaching solutions to difficult problems.
- Students will learn effective communication strategies; and how to respond to crisis situations.

Date and location: Not offered in fiscal year 2005

#### **DIAGNOSING INDOOR AIR QUALITY: (19000)**

This course is an introduction to air quality concepts. It includes the identification of hazards, evaluation techniques and sampling methods. Students will learn what impact building dynamics plays on the indoor air quality. They will also have the opportunity for "hands-on" exercises to measure and assess volatile organic compounds (VOCs), bioaerosols, and other hazardous indoor air contaminants including carbon monoxide and radon. Topics will be discussed from a routine institutional standpoint, as well as in emergency settings.

**Who should attend:** Institutional environmental health officers, safety officers, HVAC technicians, and facility engineers and managers.

**Course Length:** 2 days

**Continuing Education Units:** 1.4

**Objectives:** 

- Learn and become familiar with the equipment and techniques used to assess building ventilation, occupant comfort, VOCs, bioaerosols, carbon monoxide, and radon
- Learn about ventilation rates and pressure relationships, CO2 dynamics, and occupant comfort
- Learn difference sampling methods and techniques
- Learn to analyze and interpret the sampling results

Date and Location: November 15-16, 2004 Madison, WI

#### **ADVANCED EPIDEMIOLOGY: (23200)**

This course will build on the skills learned in the Introduction to Epidemiology course and provide a more in-depth discussion on the practical applications and of the principles of epidemiology and how they relate to the investigation of public health problems. It will be focused on the environmental health specialist, safety officer or infection control officer whose responsibilities include epidemiological investigations in either the community or healthcare setting.

Who should attend: IHS and tribal environmental health and injury prevention personnel, and hospital safety and infection control officers.

**Course length:** 2 ½ days

**Continuing Education Units:** 1.6

**Objectives:** 

- Identify the steps necessary to complete epidemiological investigations
- Identify the Ten steps of epidemiology
- Learn basic skills necessary to utilize the Epi Info analytical software program
- Successfully complete a mock field investigation

Date and Location: December 14-16, 2004 Albuquerque, NM

#### **ENVIRONMENTAL HEALTH TECHNICAL TRAINING: (20500)**

A course designed to examine current technical challenges for midlevel environmental health personnel. Topics will include the areas of program management, 10 Essential Services of Public Health, and career development.

Who should attend: IHS district and area staff environmental health specialists, injury prevention specialists and institutional environmental health specialists.

**Course length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Provide information on current environmental health topics and policies
- Discuss common program management topics
- Review technical presentations of notable environmental health activities

Date and Location: Not offered in fiscal year 2005

# New

#### ESSENTIAL SERVICES AND PACE-EH: (23700)

The current IHS DEHS Strategic Initiatives call for the implementation of a community health assessment tool and the incorporation of the Essential Services of Environmental Health. This course will provide students with an overview of each. The *Protocol for Assessing Community Excellence in Environmental Health (PACE EH)* tool is a community strategic planning process designed to help local public health agencies and communities work collaboratively to assess and improve local environmental health. This course is designed to help participants gain a better understanding of *PACE EH*- both the concepts that underpin the model as well as the practical aspects of the process.

Who should attend: Tribal and IHS Environmental Health staff.

**Course length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

• Clarify and define our role in Environmental Health, and provide a consistent Environmental Health message

- Align activities to match national priorities and strategic initiatives
- Make effective policy in developing programs
- Demonstrate how we can be more responsive to communities
- Plan and organize activities to achieve maximum benefits
- Evaluate our performance

Date and Location: February 8-9, 2005 Seattle, WA

#### INSTITUTIONAL ENVIRONMENTAL HEALTH

#### INTRODUCTION TO INSTITUTIONAL ENVIRONMENTAL HEALTH: (20010)

Introduction designed to enhance skills and increase knowledge for addressing institutional environmental health concerns is provided in this course. Topical lessons include the institutional environment (medical, childcare and correctional facilities), infection control, safety management, industrial hygiene, medical waste management, and survey concerns.

Who should attend: Entry-level IHS and tribal environmental health personnel.

Course length: 4½ days

**Continuing Education Units: 3.0** 

**Objectives:** 

- Students will become familiar with the Institutional Environmental Health Program within the IHS
- Students will be provided information to enhance their knowledge and skills for addressing institutional environmental health issues within their areas
- Students will participate in hands-on activities to become more familiar with various equipment that might be used in future institutional environmental health activities

Date and Location: Not offered in fiscal year 2005

#### **BASIC COURSE FOR SAFETY OFFICERS: (26100)**

This four and one-half day introductory course is designed for new safety officers primarily in health facilities. Through a series of lectures and hands-on exercises, students will learn the required components of a comprehensive healthcare Occupational Safety and Health program described in Chapter 9 of the Indian Health Manual. Participants attending the full course will also receive OSHA certification as "successfully completing an Occupational Safety and Health Training Course in General Industry Safety and Health".

**Who should attend:** Full time or collateral duty Safety Officers in the ambulatory care or hospital setting. Quality Mangers may also benefit from this course.

Course Length: 4½ days

**Continuing Education Units: 3.0** 

**Objectives:** 

- Obtain 10-Hour OSHA Certification
- Learn all basic aspects of a comprehensive healthcare occupational safety and health program
- Become familiar with the requirements of regulatory and accreditation bodies such as OSHA, JCAHO, and the National Fire Protection Association (NFPA)

- Become familiar with Chapter 9, *Managing Occupational Safety and Health Programs*, of the Indian Health Manual
- Become familiar with industrial hygiene regulations, survey methodologies, and personal
  protective equipment selection and fit testing

Date and Location: February 14-18, 2005 Albuquerque, NM

#### BASIC COURSE FOR INFECTION CONTROL PRACTITIONERS: (23600)

In this 3-day introductory course designed for new infection control practitioners in small hospitals and ambulatory care settings, obtain an overview of basic infection control measures, epidemiology principles, concepts, and procedures generally used in the surveillance and investigation of nosocomial infections and employee health issues. The essential features and applications of descriptive and analytic epidemiology, public health surveillance, and a step-by-step description of outbreak investigations are presented. Learn how to calculate and interpret frequency measures (ratios, proportions and rates) and how to use tables, graphs, and charts to organize, summarize, and display data.

**Who should attend:** Full time or collateral duty Infection Control Officers in the ambulatory care or small hospital setting.

**Course Length:** 3 days

**Continuing Education Units: 2.5** 

**Objectives:** 

- Learn all basic aspects of a comprehensive healthcare infection control program
- Become familiar with OSHA infection control requirements including the Bloodborne Pathogens Standard and the Needlestick Safety and Prevention Act
- Become familiar with isolation techniques including standard precautions, universal precautions, body substance isolation, and transmission-based precautions
- Become familiar with the collection, aggregation, and analysis of data
- Become familiar with disinfection, sterilization, decontamination, and antisepsis
- Become familiar with the infection control requirements of JCAHO, AAAHC, and CMS
- Learn the basics of infection control surveillance, outbreak epidemiology
- Learn the details of an effective Tuberculosis Control Plan

Date and Location: Not offered in fiscal year 2005

#### OSHA 10-HOUR COURSE FOR GENERAL INDUSTRY: (27000)

The purpose of this OSHA 10-Hour Course is to provide an in-depth discussion on the issues that OSHA feels are important to providing a safe environment and the tools required to complete a Safety and Health Program. This course is geared to healthcare and will focus on areas that are unique to that setting. Course participants will complete the OSHA 10-Hour Course for General Industry with a heavy emphasis being devoted to areas that directly affect healthcare workers. In addition, they will learn how to design and implement a comprehensive healthcare safety and

health program. Each participant will receive a current edition of the <u>Occupational Safety and Health Standards for General Industry</u>, an OSHA course completion card and a certificate of completion suitable for framing.

Who should attend: Full time or collateral duty Safety Officers in the ambulatory care or

hospital setting.

**Course Length:** 3 days

**Continuing Education Units:** 2.0 CEU's

**Objectives:** 

- Learn all basic aspects of a comprehensive occupational safety and health program
- Become familiar with OSHA requirements specific to the healthcare industry including the Bloodborne Pathogens Standard and the Needlestick Safety and Prevention Act
- Earn the 10-Hour OSHA certification

Date and Location: Not offered in fiscal year 2005

#### 10 HOUR OSHA COURSE FOR THE CONSTRUCTION INDUSTRY: (38500)

This course is targeted for engineering, inspection and construction personnel providing the OSHA 10-hour training course on construction standards. Topics include an introduction to the Occupational Safety and Health Act, the "General Duty Clause", OSHA recordkeeping requirements, electrical safety, fall protection, personal protective equipment, hand and power tools, excavation, stairways and ladders. Special emphasis is added on confined space entry and trenching and shoring.

Who should attend: IHS or Tribal engineers, technicians, inspectors, and project managers.

**Course Length:** 2 days

**Continuing Education Units: 1.5** 

**Objectives:** 

- Obtain the 10 Hour Card for the Construction Industry
- Understand the need for construction safety
- Review OSHA construction safety standards
- Understand the elements of a confined space entry permit program
- Understand the OSHA trenching and shoring requirements

Dates and Locations: November 3-4, 2004 Albuquerque, NM

December 1-2, 2004 Phoenix, AZ

#### OSHA CONSTRUCTION SAFETY & COMPETENT TRENCH: (38700)

This course is targeted for engineering, inspection and construction personnel providing the OSHA 10-hour training course on construction standards. A required OSHA course for individuals designated as the "competent person" who oversees trenching or excavations. The course centers on the OSHA statue for trench and excavation safety.

Who should attend: IHS or Tribal engineers, technicians, inspectors, and project managers

**Course Length:** 3 days

**Continuing Education Units:** 1.6

**Objectives:** 

- Understand the need for construction safety
- Review OSHA construction safety standards
- Understand the requirements for becoming the competent trench person

Date and Location: Not offered in fiscal year 2005

#### ADVANCED COURSE FOR SAFETY OFFICERS: (26200)

This 4½-day course is designed to build on and enhance the knowledge base from the Basic Safety Officer Course. The course is held in a location that allows extensive "in facility" experience in applying the concepts and techniques learned during the course. Morning sessions are held in the classroom setting with afternoon sessions spent in the hospital applying knowledge gained from lectures.

<u>Prerequisite</u>: Basic Course for Safety Officers or extensive training and experience in managing an occupational safety and health program in the healthcare setting.

<u>Topics include</u>: Accident investigation, hazard surveillance, respiratory protection, hearing conservation, indoor air quality, ventilation, risk assessment & priority setting, industrial hygiene sampling and survey methodology, mercury, ergonomics, PPE selection and evaluation, hazard communication, NFPA, program assessment, emergency decontamination, and HAZWOPER issues.

Who should attend: Full time or collateral duty Safety Officers in the ambulatory care or

hospital setting.

Course Length: 4½ days

**Continuing Education Units: 3.0** CEU's

**Objectives:** 

- Learn all aspects of a comprehensive occupational safety and health program
- Become familiar with OSHA requirements specific to the healthcare industry including the Bloodborne Pathogens Standard and the Needlestick Safety and Prevention Act
- Apply skills and knowledge gained from classroom lectures
- Obtain the skills and knowledge required to train other Safety Officers at the students' duty station

Date and Location: March 14-18, 2005 Phoenix, AZ

#### IHS ERGONOMICS: OPTIMIZING OUR EMPLOYEES' WORKSTATIONS: (27100)

This course provides a practical approach to Ergonomics: "Fitting the Task to the Worker" in the IHS setting. The students will explore successful interventions; learn to employ tools that will enable them to implement relatively simple and inexpensive interventions to prevent the occurrence of musculoskeletal disorders caused by poor ergonomic practices.

**Who should attend:** Full time or collateral duty Safety Officers in the ambulatory care or hospital setting, as well as IHS and tribal environmental health professionals.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Students will become familiar with ergonomics principles and their application in the design of work, equipment and the workplace
- Consideration is given to musculoskeletal disorders, manual handling, and ergonomics aspects of the environment as well as social and legal aspects
- Students should be able to apply ergonomics principles to the creation of safer, healthier and more efficient and effective activities in the workplace.

Date and Location: Not offered in fiscal year 2005

#### **COMPREHENSIVE HOUSEKEEPING COURSE: (49400)**

Previously called the Basic and Advanced Custodial Maintenance Courses, the Comprehensive Housekeeping Course has advanced into a 5-day session with two tracks offered at the same time. Track I will be for the housekeeping staff that are responsible for the day-to-day cleaning of the hospital or clinic. Track II will be for the supervisory staff and department heads of the housekeeping department.

Whether they are in Track I or Track II, each student will receive a copy of the new IHS Comprehensive Housekeeping Manual and learn how to use it. Both tracks will have sessions on infection control, chemical safety, electrical safety, ladder safety, and slip and fall prevention. Students in Track I will have hands-on training using the procedures for cleaning patient rooms, operating rooms, emergency rooms, and labor and delivery rooms. Additional training will be provided in the proper floor care procedures for carpet, vinyl composition tile, and ceramic tile floors. Students in Track II will receive training on staffing, cleaning schedules and frequencies, budgets, and hands-on management training for floor care techniques for carpet, vinyl composition tile, and ceramic tile floors. In addition, hands-on training on the use of the quality improvement audit tools (provided with the Procedure and Training Manual) will be presented in order that participants will be able to return to their facilities and immediately start to use them.

**Who should attend:** This course is designed for housekeepers, work leaders and supervisors of all levels of training and experience.

**Course Length:** 5 days

Continuing Education Units: 4.0

**Objectives:** 

• Gain a thorough knowledge of all basic housekeeping procedures

• Learn how to read and understand a Material Safety Data Sheet (MSDS)

• Learn housekeeping management practices to best utilize staff and equipment available

• Become familiar with the IHS Housekeeping Procedure and Training Manual

• Review infection control material pertinent to the Housekeeping department

Dates and Locations: October 18-22, 2004 Cass Lake, MN

October 25-29, 2004 White earth, MN January 24-28, 2005 Phoenix, AZ

#### **EMERGENCY MANAGEMENT PLANNING AND PREPAREDNESS: (14900)**

This course will provide an overview of emergency management activities at all levels of the Indian Health Service. Students will gain knowledge of the National Disaster Medical System (NDMS), the Incident Command System (ICS), and the National Incident Management System (NIMS). At the heart of this course is the Hospital Emergency Incident Command System (HEICS). HEICS is a command and control system for managing disasters that is based on the Incident Command System used in fire, police, and emergency medical service departments, but adapted for use in a healthcare setting. The course will include an orientation, exercises, and suggestions on an implementation plan. The Joint Commission on Accreditation of Healthcare Organizations (JCAHO) now requires a "common command structure within the organization for responding to and recovery from emergencies, which links with the command structure in the community" (Environment of Care Standard EC.1.4).

Who should attend: Safety Officers, administrators, security officers, and all others responsible for emergency management activities in the healthcare setting.

**Course Length:** 4 days

**Continuing Education Units:** 3.2 CEU's

**Objectives:** 

• Gain a thorough knowledge of the Hospital Emergency Incident Command System

• Gain adequate knowledge to immediately implement HEICS at the local duty station

• Learn to train hospital personnel in the implementation of HEICS

• Learn how to integrate the facility emergency response plan into the community plan

Dates and Locations: November 16-19, 2004 Billings, MT

March 1-4, 2005 Portland, OR May 17-20, 2005 Nashville, TN September 13-16, 2005 Phoenix, AZ

#### PROFESSIONAL TRAINING TECHNIQUES ( 10800)

This course is designed to teach the skills necessary for developing and presenting effective, motivating, and enjoyable professional training sessions. Students will learn how to manage learning in the classroom, stimulate participation of attendees, energize their training styles, understand the adult learning process, and become more flexible in their information delivery.

**Who should attend:** This course is open to anyone who is charged with developing and presenting professional training sessions. Environmental Health Officers, Environmental Health Technicians, Engineers, and all other disciplines that are required to teach, train, or give public presentations are encouraged to attend.

**Course length:** 3 days

**Continuing Education Units:** 0

**Objectives:** 

- Learn to develop and present more effective professional training sessions.
- Gain an understanding of the needs of the adult learner.
- Learn to motivate and manage learning in the classroom.
- Learn to prepare more effective visual aids.
- Gain experience in the public speaking field.

Date and location: January 11-13, 2005 Albuquerque, NM

#### INDUSTRIAL HYGIENE EQUIPMENT AND SURVEY TECHNIQUES (23050)

This two-day course is designed as an introduction to industrial hygiene instrumentation and survey methodologies. It will also serve as a refresher for employees who have experience in the industrial hygiene field, but have not practiced in some time.

**Who should attend:** Environmental Health Officers, Safety Officers, Institutional Environmental Health Officers, and Facilities Managers are the target audience for this course.

**Course length:** 3 days

**Continuing Education Units: 1.5** 

**Objectives:** 

- Become familiar with current industrial hygiene instrumentation and survey methodologies.
- Gain practical, hands-on experience in using industrial hygiene equipment.
- Learn calibration techniques for industrial hygiene equipment.
- Learn the basics of an effective industrial hygiene program at the facility level.

Date and location: August 23-25, 2005 Gallup, New Mexico



#### ADVANCED RADIATION PROTECTION SURVEYOR COURSE (19600)

This three-day course is designed to teach survey methodologies for computed tomography (CT), magnetic resonance imaging (MRI), and panographic dental x-ray units. Additional subjects include acceptance testing and annual compliance testing of computed radiography readers, as well as shielding calculations and plan review training for diagnostic imaging installations.

**Who should attend:** Institutional Environmental Health Officers, Biomedical Engineers, Biomedical Technicians, Clinical Engineers, and Clinical Engineering Technicians.

**Course length:** 4 days

**Continuing Education Units:** 3.2 CEU's **Objectives:** 

- Develop skills in surveying newer radiographic imaging equipment such as CT, MRI, and panographic dental x-ray units.
- Learn acceptance-testing techniques for radiographic equipment.
- Learn annual compliance testing techniques for computed radiographic equipment.
- Learn shielding calculations and plan review skills for diagnostic imaging installations.

Date and location: July 26-29, 2005 Fort Defiance, AZ

#### LIFE SAFETY CODE (NFPA 101): (41500)

This three-day course covers the fundamental chapters (Chapters 1-11) of the National Fire Protection Association Life Safety Code (NFPA 101, 2003 Edition), plus the chapters for new and existing Healthcare Occupancies (Chapters 18 & 19) as well as new and existing Business occupancies (Chapters 38 & 39). Students will gain a working knowledge of the code organization and the philosophy behind the code provisions. The course includes instructor-led presentations and student exercises where groups will use the code to find answers to life safety problems. Each participant will receive a copy of the Life Safety Code Handbook, 2003 edition, and a student workbook.

**Who should attend:** Safety Officers, Facilities Managers, Facilities Engineers in the ambulatory care or hospital setting, as well as Environmental Health Officers and Environmental Health Technicians responsible for surveying facilities such as schools and Head Start buildings.

**Course Length:** 3 days

**Continuing Education Units:** 2.4 CEU's

#### **Objectives:**

• Gain a thorough understanding of the Life Safety Code (NFPA 101) with particular emphasis on the core chapters (1-11), the Healthcare Occupancy chapters (18 and 19), and the Business Occupancy chapters (38 and 39)

- Acquire the ability to apply the knowledge gained at the student's facility in order to insure compliance with the Life Safety Code requirements
- Gain the knowledge required to insure a fire-safe environment at the student's facility

Date and Location: July 25-27, 2005 Las Vegas, NV

#### **HEALTHCARE FACILITIES NFPA 99: (42600)**

This two-day program is designed for building inspectors, facilities managers, facility engineers, safety inspectors, code enforcers, engineers, architects, building owners, and biomedical technicians. The course addresses specific technical requirements of medical gas and vacuum systems, essential electrical systems, and emergency preparedness within healthcare facilities. Also covered are laboratory requirements in healthcare occupancies. The course addresses requirements for new construction as well as upgrade and modernization of existing healthcare facility systems.

Who should attend: Building inspectors, facilities managers, facility engineers, safety inspectors, code enforcers, engineers, architects, building owners, and biomedical technicians.

**Course Length:** 2 days

**Continuing Education Units:** 1.5

#### **Objectives:**

- Gain a thorough understanding of the NFPA 99 Manual
- Acquire the ability to apply the knowledge gained at the student's facility in order to insure compliance with NFPA requirements.

Date and Location: July 28-29, 2005 Las Vegas, NV

JCAHO/NFPA 99: (42500)

This course covers the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) Environment of Care Standards and reviews National Fire Protection Association (NFPA) 99, Standards for Health Care Facilities. The requirements for compliance with the design, installation and maintenance of electrical emergency power and medical gas systems are provided. The student will gain a working knowledge of the standard organization and the philosophy behind the code provisions. This course will "walk" through the standard using examples where appropriate to illustrate the provisions. The students will be taught how to find provisions in the standard and have an understanding to apply those requirements.

**Who should attend:** Full time or collateral duty Safety Officers or Facilities Managers in the ambulatory care or hospital setting. Risk Managers and Quality Assurance Managers and others responsible for JCAHO accreditation activities may also benefit from this training.

Course Length: 3 days.

**Continuing Education Units: 2.0** 

**Objectives:** 

- Gain a thorough understanding of the JCAHO Environment of Care Standards
- Learn to develop Environment of Care Management Plans
- Learn to aggregate and evaluate data for Environment of Care Performance Standards
- Gain a thorough understanding of NFPA 99, Standards for Health Care Facilities
- Acquire the ability to apply the knowledge gained at the student's facility in order to ensure compliance with the NFPA 99 requirements

Date and Location: December 14-16, 2004 Tucson, AZ

# **HEALTHCARE SAFETY ACCREDITATION: (43000)**

This three-day course is an overview of what Facilities Managers and Safety Officers need to know to fully comply with the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) Environment of Care standards, Center for Medicare/Medicaid Services (CMS) Physical Environment standards, and Accreditation Association for Ambulatory Health Care (AAAHC) Facilities and Environment standards. Students will receive information on survey types and methodologies for each of the accrediting bodies. A representative from CMS teaches the CMS portion of the course. Participants will receive the latest version of the JCAHO *Environment of Care Essentials Manual* in addition to a student handbook filled with lecture notes and valuable reference materials. Hands-on activities in developing a Hazard Vulnerability Analysis and in Establishing/Measuring Performance Standards augment the classroom sessions.

Who should attend: Newly appointed Facility Managers and Safety Officers needing an introduction to the topic or for experienced staff wanting a review of the standards with an emphasis on changes that have occurred in the standards. Risk Managers, Quality Assurance Managers, and those responsible for healthcare accreditation will also benefit from this training.

**Course Length:** 3 days

**Continuing Education Units:** 2.0 CEU's

**Objectives:** 

- Gain a thorough understanding of the JCAHO Environment of Care Standards
- Gain a thorough understanding of the Center for Medicare/Medicaid Services (CMS) Physical Environment standards
- Gain a thorough understanding of the Accreditation Association for Ambulatory Health Care (AAAHC) Facilities and Environment standards
- Learn the survey requirements and methodologies of the three major accreditation bodies.
- Learn to develop Environment of Care Management Plans
- Learn to aggregate and evaluate data for Environment of Care Performance Standards

Date and Location: August 9-11, 2005 Oklahoma City, OK

## NFPA/JCAHO/OSHA FOR HEALTHCARE FACILITIES: (43100)

This 5-day course combines condensed versions of the National Fire Protection Association Life Safety Code (2003 edition), the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) Environment of Care standards, and the Occupational Safety and Health Administration (OSHA) standards applicable to healthcare facilities. Nationally recognized experts teach the NFPA and JCAHO sections of this course, while Institutional Environmental Health Officers from the Indian Health Service (IHS) teach the OSHA portion. These Institutional Environmental Health Officers bring years of experience specific to IHS healthcare facilities. Participants receive the current edition of the NFPA Life Safety Code, the current edition of the JCAHO *Environment of Care Essentials Manual*, and a student handbook filled with speaker notes and valuable reference materials.

**Who should attend:** Facilities Managers and Safety Officers with all levels of experience and training. Risk Managers, Quality Assurance Managers, and those responsible for healthcare accreditation will also benefit from this training.

**Course Length:** 5 days

**Continuing Education Units:** 4

**Objectives:** 

- Gain a thorough understanding of the JCAHO Environment of Care Standards including the latest changes and requirements
- Gain a working knowledge and understanding of the Life Safety Code with particular emphasis placed upon healthcare and business occupancies
- Become familiar with OSHA Standards applicable to the healthcare setting

Date and Location: June 20-24, 2005 Anchorage, AK



# NUCLEAR, BIOLOGICAL, AND CHEMICAL PATIENT DECONTAMINATION (16700)

This three-day course is designed to teach healthcare providers, safety officers, security officers, environmental health officers, and facilities managers the essentials of decontaminating patients, visitors, and staff who have been exposed to nuclear, chemical, or biological agents. Emphasis will be placed on decontamination procedures; personal protective equipment (PPE); the establishment of hot, warm, and cold zones; and environmental protection.

This is a hands-on course where students will be required to wear personal protective equipment and participate in the simulated decontamination of contaminated patients.

The first day of the course is an overview of the healthcare aspects of exposure to weapons of mass destruction, while days two and three comprise the decontamination training. Class size is limited to 25 students.

**Who should attend:** Everyone potentially involved in setting up decontamination facilities or decontaminating patients including safety officers, environmental health officers, security officers, facilities managers, and physicians/nurses who work in the Emergency Department.

**Course Length:** 3 days

**Continuing Education Units: 2.5** 

**Objectives:** 

• Learn to set up a portable decontamination facility

• Choose and properly wear appropriate PPE

• Learn effective patient decontamination procedures

• Learn how to adequately protect the environment during patient decon procedures

Date and Location: April 12-14, 2005 Albuquerque, NM



# HEALTHCARE SECURITY MANAGEMENT (19100)

This five-day course is designed for security officers working at IHS or tribal healthcare facilities. A series of modules including an introduction to healthcare security, crisis intervention, professional conduct and self-development, report preparation and writing, and many others will be covered. Students who successfully complete this course will be eligible to sit for the Basic Healthcare Security Officer certification examination.

Who should attend: Security officers who work in IHS or tribal healthcare facilities.

**Course Length:** 5 days

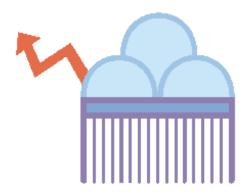
**Continuing Education Units: 3.5** 

**Objectives:** 

• Obtain a broader knowledge and understanding of healthcare security.

• Be able to more effectively manage security programs at IHS and tribal healthcare facilities

Date and Location: June 27 – July 1, 2005 Anchorage, AK



#### **EMERGENCY RESPONSE**

#### **IHS/CCRF FIELD BASICS COURSE**

This five and one half day course is designed to prepare Commissioned Officers for possible deployment by the Commissioned Corps Readiness Force (CCRF). The course will cover all of the CCRF Core Training Modules, physical training (PT) and a field training exercise daily, military customs and courtesies, nutrition and exercise, American Heart Association Basic Life Support for Healthcare Providers, and will culminate with the Annual Physical Fitness Test (APFT). Interaction with local Disaster Medical Assistance Teams (DMAT) and local military installations will be provided whenever possible.

Officers are expected to comply with CCRF height and weight standards as well as US Public Health Service Commissioned Corps grooming standards in order to be selected for this course. A minimum level of physical fitness is expected, as the participants will engage in the daily fitness program and the APFT. A letter from the officer's supervisor certifying the officer meets these standards is required prior to the officer being selected for the training.

With the exception of the CCRF immunizations and category-specific requirements, successful completion of this course and the APFT will provide the officers CCRF "Fully Qualified" roster status and make them a deployable asset.

## **Prerequisites:**

- Proof of a physical examination no older than five years.
- Successful application to and acceptance by CCRF.
- Complete Field Utility Uniform (FUU).
- PT clothing (shorts/sweatpants, tee shirts/sweatshirts, running shoes, etc.)
- All CCRF-required immunizations (Hep. A &B at least the first in the series)

**Who should attend:** Officers from all categories within the United States Public Health Service Commissioned Corps. Selection preference will be given to those officers eligible for temporary grade promotion during the 2004-2005 cycles.

**Course length:** 5.5 days

**Continuing Education Units:** Not available

#### **Objectives:**

- Meet all requirements (except immunizations and category-specific training) for CCRF Fully Qualified Roster Status.
- Increase the number of deployable officers from within Indian Health Service.
- Provide officers an opportunity to interact with DMAT and military personnel.

Dates and locations: Not offered in fiscal year 2005

# CCRF/OEHE EMERGENCY RESPONSE ORIENTATION: (14500)

This three-day workshop is intended for personnel who have not previously participated in a disaster response effort under the Commissioned Corp Readiness Force (CCRF). Elements of emergency response and typical response efforts will be discussed. Additional topics will include field operations during a response, equipment needs and utilization, priority setting, interagency coordination, and public relations. The workshop is intended to prepare officers currently on a CCRF roster for immediate disaster response duty without the need for extensive orientation at the time of deployment, thereby increasing the readiness level of OEH&E responders.

**Who should attend:** Environmental health or Engineering personnel who have previously attended a CCRF Basics Course are encouraged to attend.

**Course Length:** 3 days

Continuing Education Units: Available

**Objectives:** 

- To familiarize students of activities individuals are confronted with during a deployment to an emergency
- Learn the working plan and protocols outlined in the Environmental Health Disaster Response Plan
- Become familiar with the equipment provided during a deployment

Date and Location: Not offered in fiscal year 2005

#### **ENGINEERING AND CONSTRUCTION**

# **CONSTRUCTION INSPECTION: (34100)**

This course examines the appropriate role of the inspector in utility construction activities typical to IHS and tribal sanitation programs. This course enhances the technical skills of construction inspectors by the examination of construction activities, such as, pipelines, pump houses, and wells. The course emphasizes elements of record keeping, quality assurance, timeliness, and OSHA safety and liability.

**Who should attend:** Project managers, construction inspectors, and engineering technicians working with Tribal or Indian Health Service projects.

**Course Length:** 4 days

**Continuing Education Units**: 2.4

**Objectives:** 

- Understand role of inspector in Federal construction contracts
- Provide awareness to OSHA construction safety standards
- Examine techniques for proper inspection

Date and Location: Not offered in fiscal year 2005

# LANDFILL CLOSURE & TRANSFER STATION DESIGN: (13600)

This training is designed to provide tribal and IHS personnel with the knowledge and skills to prepare a closure plan for small landfills, which will meet the requirements of current federal regulations. In addition, students will examine various design options and requirements for transfer stations and remote collection sites typically constructed as part of a rural solid waste system.

Who should attend: Enrollment is open to tribal O&M staff, tribal environmental health personnel, and IHS engineers and sanitarians.

**Course** Length: 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Understand RCRA requirements for small solid waste sites
- Evaluate options for small solid waste sites
- Understand the basics of transfer station design

Date and Location: Not offered in fiscal year 2005

# **MICROSOFT PROJECT: (36500)**

This course provides an introduction to Microsoft Project, a computer based project management system. Topics covered will include time management, customization of GANTT and PERT charts, tracking and reports. Students will also learn how to make and utilize macros, combine and consolidate projects and to create custom forms and reports. Examples from IHS construction activities will be utilized.

Who should attend: IHS or Tribal engineers and project managers...

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Understand work flow and project management
- Evaluate options for small project management
- Understand the basics Microsoft Project

Date and Location: Not offered in fiscal year 2005

# **PUMPS AND CONTROLS FOR ENGINEERS: (30000)**

This 1-week course is divided into two separate topics: pumps and electrical controls. The pump portion covers hydraulics of pumped systems, pump drives, pump types, pump selection and specifications, and pump performance data. The electrical controls portion covers basics of motor controls, electrical safety, electric motors, troubleshooting, and designing motor controls.

Who should attend: IHS or Tribal engineers and project managers...

**Course Length:** 5 days

**Continuing Education Units: 4.0** 

**Objectives:** 

- Learn to analyze a water system graphically
- Evaluate pump selection and drivers
- Understand basic electrical control design
- Build working electric control panels

Date and Location: Not offered in fiscal year 2005

### **BASIC SURVEYING COURSE: (31500)**

This course is designed to teach basic surveying principles and skills needed by IHS engineers and construction personnel. The course includes classroom instruction combined with field application of land surveying techniques. Lessons include leveling, traversing, transit-stadia surveying and grade staking.

Who should attend: IHS or Tribal technicians, inspectors, and project managers.

**Course Length:** 5 days

**Continuing Education Units:** 4.0

**Objectives:** 

• Learn the basics of land descriptions

• Perform level loops, stadia surveys, and traverses

• Perform construction staking for utility lines and earthwork construction

**Date and Location:** September 12-16, 2005 Albuquerque, NM

# **ELECTRONIC SURVEYING/COMPUTER DESIGN: (32001)**

A course designed to teach the use of electronic survey instruments and data collectors, and the interfacing of survey data with computer aided design and drafting.

Who should attend: IHS or Tribal technicians, inspectors, and project managers

**Course Length:** 5 days

**Continuing Education Units:** 4.0

**Objectives:** 

• Learn to use electronic surveying equipment and data collectors

- Perform field surveys for topography and design
- Perform stake out surveys from a CAD design

**Date and Location:** September 19-23, 2005 Albuquerque, NM

# **INTRODUCTION TO GPS SURVEYING: (36000)**

An introductory course into various field-surveying techniques, which utilize survey grade Global Positioning System technology. Students learn "fast static" and "real time kinematics (RTK)" surveying techniques to collect field data that is used for engineering design of water and wastewater systems. Sessions also include post processing of data, transformation of coordinate data to preferred reference systems, and stakeout routines for construction staking.

Who should attend: IHS or Tribal technicians, inspectors, and project managers

**Course Length:** 5 days

**Continuing Education Units: 4.0** 

**Objectives:** 

- Provide basic instruction on geodetic surveying
- Perform basic surveys using multiple receivers and data collectors
- Perform kinematic surveys to collect field data and to do stake-outs

Date and Location: Not offered in fiscal year 2005

# ADVANCED GPS SURVEYING: (38200)

A course that examines advanced GPS surveying techniques. The course centers on the use of Trimble's Geometrics Office software and post processing data. The course examines the use of CORS stations, coordinate systems, and other data sources.

**Who should attend:** IHS or Tribal engineers and project managers.

**Course Length:** 5 days

**Continuing Education Units:** 4.0

**Objectives:** 

• Provide advanced instruction on geodetic surveying

- Perform baseline static surveys using multiple receivers and data collectors
- Perform kinematic surveys to collect field data and to do stake-outs
- Evaluate data processing from surveys and COR stations

Date and Location: Not offered in fiscal year 2005

# **GROUND WATER AND WELL DRILLING: (33500)**

This course introduces students to ground water hydrology and the methods of constructing domestic water wells. The course combines extensive classroom lecture with field demonstrations. Field demonstrations include well drilling by air and mud techniques, casing and screen setting, well development, test pumping, and geophysical well logging.

Who should attend: IHS or Tribal technicians, inspectors, and project managers

Course Length: 4 days

**Continuing Education Units:** 3.2 units, certified by National Ground Water Association

**Objectives:** 

- Observe real drilling operations in multiple geologic environments
- Learn techniques for designing well casings and screens
- Observe well development and abandonment
- Perform a test pump and analyze the data

Date and Location: May 10-13, 2005 Minneapolis, MN

ADVANCED AUTOCAD: (32500)

This is an advanced course for engineers and technicians with a working knowledge of AutoCAD. The AutoCAD elements of the course include drawing and file management, paper space, LISP routines, and advanced drawing techniques. A working knowledge of basic AutoCAD is needed for this course.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 5 days

**Continuing Education Units: 4.0** 

**Objectives:** 

- Learn advanced drawing techniques
- Work with model and paper space drawings
- Prepare simple LISP routines

Date and Location: Not offered in fiscal year 2005

# **AUTOCAD LAND DEVELOPMENT: (34500)**

This course was formally known as Basic SoftDesk. An introduction to the surveying data reduction and design software developed by SoftDesk utilizing the AutoCAD computer aided drafting package. The training includes examples applications in surveying, easement preparation, and earthen design typical of Indian Health Service construction activities.

Who should attend: IHS or Tribal technicians, inspectors, and project managers.

**Course Length:** 4 days

**Continuing Education Units:** 3.2

**Objectives:** 

- Learn to download survey data from a collector and create points in drawing
- Prepare alignment design for legal drawings
- Create 3D earthen design

Date and Location: Not offered in fiscal year 2005

# ADVANCED AUTOCAD LAND DEVELOPMENT: (37500)

Intended for experienced users of the Land Development (SoftDesk) application. Advanced AutoCAD Land Development provides an in-depth look at the 3-D functions of the design package. The course covers advanced terrain modeling and calculations.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 4 days

**Continuing Education Units: 3.2** 

**Objectives:** 

- Prepare designs of 3D earthen structures using 3D polylines
- Learn to use advanced drawing techniques
- Incorporate AutoCAD Map into Land Development projects

Date and Location: June 14-17, 2005 Phoenix, AZ

# CONSTRUCTION SAFETY PROGRAM DEVELOPMENT: (38400)

A course designed to aid in the development of a construction safety program specific to each Area. The course centers on compliance with existing OSHA requirements, but also looks at program implementation.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units:** 1.6

**Objectives:** 

- Understand the need for construction safety
- Review OSHA construction safety standards
- Understand the elements of a safety program

Date and Location: Not offered in fiscal year 2005

# ONSITE WASTEWATER TREATMENT: (30500)

Persons involved with the evaluation of soil and site conditions for wastewater, designing, or managing systems benefit greatly from this four-day course. Participants learn to conduct site evaluations by working with actual soil samples, watch soil move through plastic models, and design multiples types of systems.

Who should attend: IHS or Tribal engineers, technicians, inspectors, and project managers.

**Course Length:** 4 days

**Continuing Education Units: 2.4** 

**Objectives:** 

- Identify soil types, structure, texture, and color
- Learn the elements of a site survey for on-site waste disposal
- Design on-site wastewater treatment based on soil site survey

Date and Location: January 10-13, 2005 Albuquerque, NM

**WASTEWATER PUMPING: (30510)** 

This course provides sound design techniques for better operation and maintenance of lift stations, force mains, and pressure sewers. The University of Wisconsin teaches this course.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units:** 1.8 from the University of Wisconsin

**Objectives:** 

- Develop design solutions to wastewater pumps stations
- Learn to optimize pump station
- Explore maintenance issues and problems

Date and Location: Not offered in fiscal year 2005

# LEADERSHIP DEVELOPMENT FOR THE ENGINEER: (35400)

This course develops leadership skills, teaches you how to lead an organization or department, and apply a leadership style appropriate for the situation. Charles Calhoun through ASCE presents the course.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units:** 1.6 units, certified by ASCE

**Objectives:** 

- Develop or expand leadership skills
- Understand and apply leadership styles to situations
- Look at decision making processes

Date and Location: Not offered in fiscal year 2005

#### PROGRAMMABLE LOGIC CONTROLLERS: (30100)

An introductory course to programmable logic controllers (PLC) that looks at the advantages of PLC controls over relay based. The course covers PLC programming, ladder logic, and troubleshooting. The course is intended for engineers considering PLC controls and operators with PLC systems. NTT is the instructor for this course.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units:** 1.6

**Objectives:** 

- Understand PLC operations and installation
- Learn basic ladder logic programming
- Develop skills in troubleshooting controllers

Date and Location: April 5-7, 2005 Rapid City, SD

# COMMUNITY, LAND USE & INFRASTRUCTURE PLANNING: (39100)

A course designed to aid project managers, engineers and planners with the problems associated with land use planning and incorporating water, sewer, and other utilities. The course looks at the special problems faced with planning on Indian lands.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

Understand the concepts of planning for construction Look at the tools available to make planning decisions

Date and Location: Not offered in fiscal year 2005

## MID-LEVEL TECHNICAL TRAINING (ENGINEERS): (30100)

A course designed to examine current technical challenges for midlevel engineers. Topics included in the areas of project management, water quality design, and construction.

Who should attend: IHS district and area staff engineers

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Provide design information on current engineering topics
- Review technical presentations of notable construction activities

Date and Location: Not offered in fiscal year 2005

#### WATER QUALITY AND ARSENIC: (30200)

A design course for engineers that centers on the removal of arsenic from drinking water. Current treatment technologies will be reviewed in this course. The quality of existing sources and their effect on treatment will be discussed.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Review water quality chemistry and the occurrence of Arsenic
- Learn the theory of pilot plant design
- Review current Arsenic treatment technologies

Date and Location: January 4-6, 2005 Albuquerque, NM

# **AUTOCAD LAND DEVELOPMENT MAP: (35000)**

This three-day course gives the hands-on experience and conceptual overview needed to take full advantage of LDD's Map GIS display, editing, analysis and presentation mapping functions. Class participants become familiar with the components of the LDDGIS interface and learn how documents called views, tables, charts and layouts are used to display and work with different kinds of information.

Who should attend: IHS and Tribal personnel with environmental compliance responsibilities

within their organizations **Course Length:** 3 days

**Continuing Education Units**: Not available

**Objectives:** 

• Display tabular and feature data

• Work with georeferenced spatial data

• Query features using logical expressions

• Associate table data to maps

Date and Location: June 7-9, 2005 Phoenix, AZ

# PROJECT MANAGEMENT (PMI): (36600)

A course for engineers that introduces the basic ideas and concepts of project management and provides a road map for PMI certification.

Who should attend: IHS or Tribal engineers and project managers.

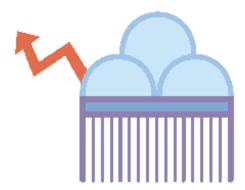
**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

• PMI certified course work in planning and project management.

Date and Location: June 21-23, 2005 Seattle, WA



#### UTILITY OPERATION AND MAINTENANCE

# **ELECTRICAL CONTROLS FOR UTILITY OPERATORS: (50500)**

This course provides operational knowledge of basic electrical concepts and exposure to common electrical components used in water and sewer utility control systems. In this popular course, operators learn to use electrical meters and apply elementary trouble shooting techniques while constructing and testing actual pump control panels. This course relies heavily on hands-on activities and classroom participation.

Who should attend: Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Learn the basics of electricity and electrical control components
- Learn to use a multi meter
- Build working electrical panels
- Learn basic troubleshooting

Date and Location: October 19-21, 2004 Port Angeles, WA

November 9-11, 2004 Fairbanks, AK January 11-13, 2005 Sioux Falls, SD August 16-18, 2005 Ukiah, CA

#### CROSS CONNECTION CONTROL: (55000)

In this workshop, students will explore the public health significance of cross connections in water utility systems. Students will gain essential, fundamental knowledge about types and causes of backflow, types of backflow prevention assemblies and their applications. Students will learn the requirements of backflow prevention associated with varying degrees of hazard. In addition, the standards and administrative requirements for a utility cross connection control program will be discussed in detail. This course is designed for those who want to improve their knowledge of cross connection control program development, administration, and management.

Who should attend: IHS or Tribal engineers and project managers.

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Review the elements of a cross connection control program
- Learn to identify backflow prevention devices
- Learn backflow device testing

Date and Location: October 13-15, 2004 Nome, AK

 March 8-10, 2005
 Anchorage, AK

 April 12-14, 2005
 Escondido, CA

 May 17-19, 2005
 Sitka, AK

# PUMPS AND PUMPING SYSTEM, OPERATION & REPAIR: (56000)

Designed as the follow-up course to "Electrical Controls for Utility Operators", this three-day course provides hands-on training in pumps and pumping system operation and repair. Student exercises reinforce and build skills in pump components and troubleshooting techniques using actual pumping equipment for disassembly and demonstration purposes. Inclusion of electrical control panels builds on elements of previous courses to allow in-class-troubleshooting exercises using complete, operational water pumping systems.

Who should attend: Tribal Utility managers and operators.

**Course Length**: 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

• Learn the basics of pumps

• Review water system hydraulics

• Learn basic water system troubleshooting

Date and Location: January 25-27, 2005 Nome, AK

February 15-17, 2005
April 5-7, 2005
May 10-12, 2005
June 14-16, 2005
Flagstaff, AZ
King Salmon, AK
Fairbanks, AK
Phoenix, AZ

# WATER DISTRIBUTION SYSTEM FIELD OPERATIONS I: (54000)

This hands-on course teaches operators operating characteristics and repair techniques of common water and sewer equipment including valves, hydrants, piping, and pressure regulators to name a few. By working on actual utility equipment, operators will be provided the skills to perform timely on-site repairs and maintenance in a cost effective manner. 1.8 CEUs

**Who should attend:** Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Learn to identify the basic components of a water distribution system
- Practice gate valve assembly and repair
- Perform water system taps

Date and Location: October 19-21, 2004 Barrow, AK
January 18-20, 2005 Fairbanks, AK



# **LIFT STATION OPERATIONS: (56100)**

This hands-on training course is designed for operators, wastewater managers and engineering staff interested in an overview of lift station operations and troubleshooting. The course includes a review of pumps, piping, mechanical equipment and electrical componants commonly used in lift stations and provides an opportunity for attendees to work with this equipment during classroom exercises. Common hydraulic problems are discussed and demonstrated including the effects of velocity, water hammer and entrapped air. Operating problems related to debris, grease and odor control are examined. Course presentation also includes topics on safety, emergency response and code compliance. Record keeping is discussed as an aid to maintaining system reliability and operational cost reduction. This is an interactive course maximizing classroom involvement using demonstrations and exercises.

**Who should attend:** Wastewater system operators, utility managers, and engineers looking for operational background and troubleshooting information on lift stations.

**Course Length:** 3 days

**Continuing Education Units:** 2.4 CEU

**Objectives:** 

- Provide an overview of the lift station types and equipment
- Examine basic hydraulic considerations in lift station operation
- Review control systems and types
- Examine pump troubleshooting techiniques
- Provide an overview of piping and valving considerations
- Discuss common operational problems and troubleshooting
- Provide an overview of applicable codes and safety compliance
- Discuss record keeping as an aid to system maintenance and reliability
- Review emergency procedures
- Discuss operational cost control

Date and Location:	March 15-17, 2005	Phoenix, AZ
	June 7-9, 2005	Bellingham, WA
	July 19-21, 2005	Omaha, NE
	August 2-4, 2005	Bangor, ME

# WATER DISINFECTION AND FLUORIDATION FOR SMALL WATER SYSTEMS: (51000)

This training course provides maintenance personnel with the necessary skills and knowledge to effectively disinfect and fluoridate small communities' water supplies. Lessons include an overview of EPA regulations, chemical safety, and introduction to treatment processes, field analysis and performance of dosage calculations. Hands-on maintenance and trouble shooting of chemical feed pumps is included.

Who should attend: Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Understand the basics of Fluoridation and Disinfection
- Learn to identify chemical feed pump components
- Perform chemical dosage calculations
- Perform field tests for Fluoride and Chlorine
- Learn basic troubleshooting of chemical feed pumps

Date and Location: January 11-13, 2005 Kotzebue, AK

November 16-18, 2004 Phoenix, AZ May 3-5, 2005 Phoenix, AZ Bismarck, ND

# GAS CHLORINATION SYSTEMS: (51100)

The special safety and operating techniques used in handling and injecting chlorine gas are examined in this new course. The requirements of OSHA, EPA, and DOT are covered to provide operators an insight to the regulations of using chlorine gas.

Who should attend: Tribal Utility managers and operators.

**Course Length**: 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Understand the laws regarding the use of gas chlorine
- Learn safe chemical handling and use of chlorine gas
- Learn the basics of troubleshooting and repair of gas systems

Date and Location: Not offered in fiscal year 2005

# OPERATION & MAINTENANCE ORGANIZATIONS FOR DECISION-MAKERS: (57000)

This course provides an overview of the reasons for establishing a well-defined water, sewer and solid waste operational framework. This course explores the possible structural options and components of an effectively operating tribal utility maintenance organization. This course is designed for tribal council members, administrators, and other tribal management personnel.

Who should attend: Tribal council members, administrators, and utility managers.

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Provides the framework to look at organizations and evaluate their effectiveness
- Evaluate your utility structure

• Learn from other organizations

Date and Location: October 5-7, 2004 Albuquerque, NM

November 30-December 2, 2004 Ocean Shores, WA

# TRIBAL UTILITY MANAGEMENT: (51500)

A course intended for first line supervisors of utility system workers and personnel. Elements of supervision, motivation, and conflict management are provided from a cultural and realistic viewpoint. Goals include developing management skills for supervisors of tribal utility laborers subject to frequent job turnover rates as well as developing understanding of labor laws and requirements. Problem solving techniques and student interactions are emphasized.

Who should attend: Tribal Utility managers and operators.

**Course Length**: 3 days

**Continuing Education Units**: 1.8

**Objectives:** 

- Develop personnel skills with first line utility supervisors
- Provide an overview of a supervisor's requirements

Date and Location: Not offered in fiscal year 2005

#### SOLID WASTE LANDFILL OPERATIONS: (13500)

This course is the Solid Waste Association of North America (SWANA) Manager of Landfill Operations (MOLO). In this three-day seminar, recent laws and regulatory changes are used as the basis for explaining the solid waste compliance activities faced by tribes and tribal operators. Guidance is provided on the Resource Conservation and Recovery Act (RCRA), the Indian Lands Open Dumps Cleanup Act, and the development of solid waste management plans and landfill operations specific to tribal systems.

Who should attend: Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

Learn to manage a solid waste facilityPrepare for SWANA certification

Date and Location: Not offered in fiscal year 2005

# SOLID WASTE OPEN DUMP ASSESSMENTS: (16500)

This course discusses considerations in designing an open dump assessment program. Developed in conjunction with the University of Wisconsin, students will be provided an overview of the steps to assessing the content and potential threat to health and the environment posed by an open dump. Examples of assessment programs will be provided.

Who should attend: Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units: 1.8** 

**Objectives:** 

- Conduct field examinations of an open dump site
- Prepare recommendations on a site
- Examine the RCRA requirements for landfills

Date and Location: Not offered in fiscal year 2005

## **SOLID WASTE PLANNING: (13600)**

This course discusses considerations in designing a solid waste management system from collection to disposal.

Who should attend: Tribal Utility managers and operators.

**Course Length:** 3 days

**Continuing Education Units:** 1.8

**Objectives:** 

- Conduct an evaluation of potential solid waste collection systems
- Prepare recommendations on a plan
- Examine the RCRA requirements for landfills

Date and Location: November 3-5, 2004 Albuquerque, NM

#### FACILITIES MANAGEMENT AND ENGINEERING



# FACILITIES MANAGEMENT BASICS: (40000)

Basic program elements needed to understand the role of Facilities Managers. The training is targeted for young engineers with little experience, or experienced engineers without health care facilities experience (who have made a career move), and facilities personnel without engineering or health care background. The course will cover the following program elements; IHS organization, office administration, personnel management, air conditioning fire protection systems, procurement and contracting, service contracts, boilers, utilities management, preventive maintenance, equipment management, electrical distribution, emergency power, electrical safety, financial management, elevators, energy management, FEDS, work management, and credentials. The duration of this course is five days.

**Who should attend:** Area planners, facility engineers, facility managers, supervisors, staff engineers.

**Course Length:** 5 days

Continuing Education Units: not available

**Objectives:** 

- Provide an overview of the IHS organization, office administration, personnel management, and tribal relationships.
- Include an introduction to health care facility building mechanical systems
- Explain the various procurement methods, and explain how to choose the procurement method bested suited for a given project.
- Provide and introduction to IHS data systems as related to facilities management.
- Discuss financial management and common pitfalls
- Provide an introduction to work management processes commonly in use
- Provide an overview of health care facility related codes and ordinances
- Discuss energy management issues
- Provide and overview of emergency response related to health care facilities.

Date and Location: January 24-28, 2005 Portland, OR

# CONSTRUCTION UNDER P.L. 93-638, TITLES I & V/NEPA: (11100)

This three-day seminar will guide participants through Public Law 93-638 Construction under T-I and T-V. The options available to tribes under the law for a Title I contract or a Title V compact are covered in depth with examples presented for both options. The course is designed for tribal and IHS personnel involved in P.L. 93-638 construction activities.

Who should attend: Tribal and IHS Personnel who have a role in the development and negotiation of construction proposals or have a role in post award activities for IHS Projects conducted under a P.L. 93-638 contract or project agreement.

**Course Length:** 3 days

Continuing Education Units: Not available

# **Objectives:**

- Understanding Public Law 93-638 Construction under Title I and V
- Understanding the negotiation process
- Role of the Tribe and Role of the IHS
- NEPA responsibilities under T-I and T-V

Date and Location: October 26-28, 2004 Minneapolis, MN

February 8-10, 2005 San Antonio, TX

## **NEPA FOR FACILITIES MANAGERS: (16000)**

This workshop is intended to bring facility managers up to date on the latest NEPA rules and regulations. We will discuss the Agency's methods for NEPA review and any exclusion that exist. A discussion is planned on NEPA coordination with other Agencies (EPA, USDA, HUD). This training will center on common issues related to NEPA that are inherent to facility management programs. However, many of the issues will be common to other disciplines and is not restricted only to facility managers.

Who should attend: IHS or Tribal engineers and project managers

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Manage the NEPA process to comply with the intent of the law
- Implement CEQ regulations and agency requirements
- Review and write EAs, FONSI, EISs, RODs, that comply with NEPA and agency guidelines

Date and Location: July 19-21, 2005 Phoenix, AZ

# **DIAGNOSING INDOOR AIR QUALITY: (19000)**

This course is an introduction to air quality concepts. It includes the identification of hazards, evaluation techniques and sampling methods. Students will learn what impact building dynamics plays on the indoor air quality. They will also have the opportunity for "hands-on" exercises to measure and assess volatile organic compounds (VOCs), bioaerosols, and other hazardous indoor air contaminants including carbon monoxide and radon. Topics will be discussed from a routine institutional standpoint, as well as in emergency settings.

**Who should attend:** Institutional environmental health officers, safety officers, HVAC technicians, and facility engineers and managers.

**Course Length:** 3 days

**Continuing Education Units: 2.1** 

**Objectives:** 

- Learn and become familiar with the equipment and techniques used to assess building ventilation, occupant comfort, VOCs, bioaerosols, carbon monoxide, and radon
- Learn about ventilation rates and pressure relationships, CO2 dynamics, and occupant comfort
- Learn difference sampling methods and techniques
- Learn to analyze and interpret the sampling results

Date and Location: Not offered in fiscal year 2005

# REMEDIATING INDOOR AIR QUALITY PROBLEMS: (19010)

This course addresses techniques and methods to "cure" buildings of the most difficult class of indoor air contaminants – biological contaminants. The course content will extend to techniques and methods that have proven unsuccessful in remediation of contamination problems as well as those methods that have had success.

Who should attend: Institutional environmental health officers, environmental health specialists, safety officers, HVAC technicians, and facility engineers and managers.

**Course Length:** 2 days

**Continuing Education Units: 1.4** 

**Objectives:** 

- Become familiar with remediation strategy development
- Learn the effectiveness of biocides and antimicrobials
- Understand air handling and duct remediation requirements
- Learn how to select a restoration specialist

Date and Location: Not offered in fiscal year 2005

## HANDS-ON MAINTENANCE TRAINING #1: (49000)

A basic maintenance course that covers maintenance problems encountered in housing or facility maintenance. Participants will be taken step-by-step through many different electrical and plumbing repairs. Detailed demonstrations will be utilized to explain how proven maintenance techniques can be used for troubleshooting, testing for problems, and for making adjustments, repairs, and replacements.

Who should attend: Maintenance personnel, electrician & plumber technicians, maintenance

supervisors, foremen, and facility managers.

**Course Length:** 3 days

**Continuing Education Units:** not available

**Objectives:** 

• To learn and perform maintenance skills.

- To perform common electrical and plumbing repairs.
- Learn to re-pin locks

Date and Location: March 7-9, 2005 Aberdeen, SD

## HANDS-ON MAINTENANCE TRAINING #2: (49100)

This maintenance course is an extension of the basic Hands-on Maintenance Training. This course will cover determination of wire size and breakers for various circuits, GFCI receptacle wiring for single locations, and various wiring configurations for duplex receptacles, 3 and 4-way switches. Students will learn how to repair Sloan valves and other plumbing valves, and how to design and build plumbing systems.

**Who should attend:** Maintenance personnel, electrician & plumber technicians, maintenance supervisors, foremen, and facility managers.

**Course Length:** 2 days

Continuing Education Units: Not available

**Objectives:** 

- Continuation of Hands-on Maintenance
- Learn more complex electrical and plumbing repair procedures

Date and Location: March 10-11, 2005 Aberdeen, SD

# EMERGENCY GENERATOR O&M: (44550)

This course is a technical overview of on-site power systems. Topics included in this training are basic engine theory, basic electricity and generator theory, and different types of controls systems. In general, anything needed to properly operate & maintain emergency power generation systems is covered. This training is an intense, practical "hands-on" seminar where students are introduced to different brands of generators, engine manufacturers, transfer switches, paralleling systems, and switchgear controls.

**Who should attend:** Maintenance personnel, electricians, mechanic, and facility managers and engineers. Anyone responsible for sustaining of constant power to a facility should attend.

**Course Length:** 3 days

Continuing Education Units: Not available

**Objectives:** 

- Become familiar with several different types of emergency generation systems
- Understand the relationship and interaction of engines, generators, regulators, controls, and switching
- Learn to size generators for different loads
- Understand the importance of preventive maintenance, including diesel fuel, battery maintenance, generator/engine testing, annual service and record keeping

Date and Location: Not offered in fiscal year 2005

# **MAINTAINING ASPHALT PAVEMENTS: (48500)**

This course will provide instruction on methods of selecting and implementing preventive maintenance techniques for asphalt pavements. Instruction includes information on cost-effective crack sealing and overlays, durable patching and innovative recycling, alternative surface treatments, and materials and methods for streets, highways, and parking lots.

**Who should attend:** Facility engineers and manager, maintenance personnel, construction inspectors, and designers.

Course Length: 2 days

**Continuing Education Units:** 1.4

**Objectives:** 

- Learn the latest asphalt technology
- Learn the appropriate techniques and methods to maintaining existing systems
- Learn of alternative systems available

Date and Location: Not offered in fiscal year 2005

#### **BOILER MAINTENANCE: (45000)**

Boiler operation, operator responsibilities, safety and housekeeping, boiler types and construction (hot water/steam systems), codes and standards, operating and safety controls, flame safeguard, combustion systems, water treatment, plant operation (startup, shutdown, cycling, emergencies, inspections, filling the boiler, lighting/raising pressure), maintenance and repairs, and stack emissions. This training is an intense, practical "hands-on" seminar that emphasizes methods to achieving peak efficiencies, improvement of troubleshooting skills, and the establishment of an effective PM program.

Who should attend: Maintenance personnel, electrician & plumber technicians, maintenance

supervisors, foremen, and facility managers.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

- Learn boiler construction features and essential components
- Learn how boilers, burners, and programmers integrate
- Learn combustion requirements and how to adjust burners for proper operation and maximum efficiency
- Learn the common failure modes and how to prevent them
- Learn advanced troubleshooting and problem-solving skills

Date and Location: October 25-29, 2005 Aberdeen, SD

## **MECHANICAL INSPECTION: (46200)**

This 5-day course will be a comprehensive review of the international codes related to mechanical systems and applications in critical inspection areas. The course is designed for those individuals involved in inspecting existing and new installations. Instruction emphasizes the international mechanical code and fuel gas codes.

**Who should attend:** Facilities engineers and managers, designers, and inspectors.

Course Length: 5 days

**Continuing Education Units: 3.5** 

**Objectives:** 

- Overview of the International Mechanical Code
- Overview of the International Fuel Gas Code
- Review of real-world applications

Date and Location: Not offered in fiscal year 2005

## NATIONAL ELECTRICAL CODE – NFPA 70: (46000)

This course covers the requirements for compliance with the National Electrical Code (NEC) in new and existing buildings. The code changes every three years so it is mandatory that employees stay abreast of the changes.

Who should attend: Facilities engineers and managers, electricians, and safety officers.

**Course Length:** 3 days

**Continuing Education Units: 2.1** 

**Objectives:** 

- Provide a basic understanding of the NEC
- Learn the new changes in the code
- Learn to properly select and size conductors for different applications
- Learn the proper applications where ground-fault protection of equipment is required
- Learn proper grounding requirements

Date and Location: February 1-3, 2005 Anchorage, AK

# NATIONAL FIRE ALARM CODE (NFPA 72): (46700)

This 2-day "hands-on" course covers the requirements for compliance with the National Fire Alarm Code (NFPA 72). Students will learn when and where codes apply and what is actually required. Course agenda will include fundamentals of fire alarm systems, household fire warning equipment, protected premises fire alarm systems, initiating devices, and inspecting, testing and maintenance.

**Who should attend:** Facilities engineers and managers, electricians, and safety officers.

Course Length: 2 days

**Continuing Education Units:** 1.4

**Objectives:** 

- Provide a basic understanding of the NFPA 72
- Learn how to navigate within the codebook for different situations
- Learn about the different detectors, how they operate and where you should and should not use them
- Learn the proper installation, maintenance, and inspection testing techniques to maintain your system
- Learn how other codes and standards affect fire alarm system design and installation

Date and Location: Not offered in fiscal year 2005

# FIRE PROTECTION SYSTEMS – NFPA 25: (46800)

This 3-day course covers the fire safety codes pertaining to the installation, inspection, testing and maintenance of fire protection systems in health care facilities. It will provide an overview of the types of sprinkler systems and the inspection, tests, and maintenance requirements for these systems. In addition, the inspection, tests, and maintenance of fire alarm systems, kitchen hood systems, and fire extinguishers will be covered. Each participant will receive a copy of NFPA 25, "Inspection, Test, and Maintenance of Water Based Extinguishing Systems" and a copy of the NFPA book *Fire Protection Systems, Inspection, Test, and Maintenance Manual*.

Who should attend: Facilities engineers and managers, electricians, and safety officers.

**Course Length:** 3 days

Continuing Education Units: not available

**Objectives:** 

Understanding the fire protection systems available
Understanding NFPA 25 & 13 and how they interact

Date and Location: Not offered in fiscal year 2005

# **UNIFORM PLUMBING CODE (UPC): (46100)**

The Uniform Plumbing Code establishes the standards for the protection of public health, safety and welfare through the proper installation and inspection of plumbing systems. This 2-day "hands-on" course will provide code requirements pertaining to plumbing materials, types of joints, plumbing fixtures, water heater installations, water distribution systems, sanitary drainage systems, traps, testing, and heating.

Who should attend: Facilities engineers and managers, designers, plumbers, and inspectors.

**Course Length:** 2 days

**Continuing Education Units:** 1.4

**Objectives:** 

- Plumbing fixtures explained, including prohibited fixtures
- Sizing of sewer drainage systems and venting systems
- Protection of piping, including materials and structures
- Gas-line distribution systems and combustion air ducts, pipes, and openings
- Illustrated water heater installations including venting, combustion air requirements, clearance, protection from damage, and vent terminations

Date and Location: Not offered in fiscal year 2005

# **INTERNATIONAL PLUMBING CODE (UPC): (46110)**

The International Plumbing Code establishes the standards for the protection of public health, safety and welfare through the proper installation and inspection of plumbing systems. This 2-day "hands-on" course will provide code requirements pertaining to plumbing materials, types of joints, plumbing fixtures, water heater installations, water distribution systems, sanitary drainage systems, traps, testing, and heating.

Who should attend: Facilities engineers and managers, designers, plumbers, and inspectors.

**Course Length:** 2 days

**Continuing Education Units: 1.4** 

**Objectives:** 

- Plumbing fixtures explained, including prohibited fixtures
- Sizing of sewer drainage systems and venting systems
- Protection of piping, including materials and structures
- Gas-line distribution systems and combustion air ducts, pipes, and openings
- Illustrated water heater installations including venting, combustion air requirements, clearance, protection from damage, and vent terminations

Date and Location: Not offered in fiscal year 2005

# CERTIFICATION FOR RADIOLOGICAL EQUIPMENT SPECIALIST (CRES) (49510)

This 5-day course is designed to teach the experienced biomedical technician the requisite knowledge necessary to successfully pass the CRES test. Subjects covered include radiation physics, radiation safety, anatomy, physiology, x-ray equipment use, CDRII compliance testing, electronics, and troubleshooting.

NOTE: If demand is sufficient, testing for the CRES certification will be available on Saturday following the conclusion of the training.

Who should attend: BioMed Engineers and BioMed Technicians at the GS-11 and higher

grades.

**Course Length:** 5 days

Continuing Education Units: not available

**Objectives:** 

- Prepare students for the CRES Certification examination
- Complete the five major areas of study for the CRES certification Anatomy & Physiology, Radiological Physics and Safety, Electricity & Electronics, Radiological equipment applications, and technical problem solving

Date and Location: Not offered in fiscal year 2005

# PACS, DICOM, AND TELERADIOLOGY SYSTEM MAINTENANCE: (49520)

This 5-day course provides the necessary information for service professionals to maintain imaging systems. This rapidly expanding field includes the integration of digital imaging modalities (DICOM) into a picture archiving and communications system (PACS), and teleradiology system maintenance. Emphasis is placed on network topologies, DICOM compatibility, teleradiology, hardware components, software options, system configuration, security principles, network system maintenance, system integration, and network troubleshooting.

Who should attend: BioMed Engineers and BioMed Technicians at the GS-11 and higher

grades.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

• Define networking terminology

- Identify network structure and components
- Interpret DICOM 3.x protocol
- Interpret DICOM conformance statements
- Describe typical PACS and Teleradiology systems
- Plan a network
- Install a network

Date and Location: Not offered in fiscal year 2005

# **BIOMED TEST EQUIPMENT: (49500)**

This course instructs as to the proper use of biomedical test equipment. The training will feature "hands on" DNI product training. Emphasis is placed on skill development and productivity through integrating biomedical test equipment with the Sentinel 32 computerized maintenance management system for biomedical devices.

Who should attend: BioMed engineers & technicians, and facility managers.

**Course Length:** 5 days

Continuing Education Units: Not available

**Objectives:** 

Proper use of BioMed test equipment and interaction with the Sentinel software

Date and Location: Not offered in fiscal year 2005

# **HVAC FOR HEALTH CARE FACILITIES: (45500)**

The Indian Health Service (IHS) has identified a need to provide training for its healthcarerelated facility staff (including non-mechanical engineers, facility managers, operators, and industrial hygienists from both hospitals and large primary care clinics).

The training program is structured to provide attendees with the information necessary to understand how HVAC systems function and their role in a healthcare setting. Because of the nature of healthcare facilities and importance of HVAC in many segments of these facilities, the course will focus specifically on the special use requirements for healthcare facilities that encompass both clinics and hospitals.

The program will provide an overview of heating, ventilation, and air-conditioning systems with an emphasis on healthcare facilities (hospitals and clinics). In addition to covering the fundamentals of HVAC systems, an overview of commissioning is included in the course.

Concepts presented in the classroom will be reinforced during planned walk-throughs at ANMC. The goal of the walk-thru is two-fold. First, the walk-thru will give the course leaders an opportunity to show attendees equipment and discuss its operation in the context of a healthcare facility. The walk-thru activity will be designed to augment and reinforce the classroom discussion of HVAC systems and their role in a healthcare setting. The second goal of the walk-thru is to conduct hands-on exercises giving the attendees additional tools for use in their own facility operations. For example, the course leaders propose to include practical activities such as "field evaluation of an infectious isolation room", comfort assessments, and building zone pressure mapping.

Who should attend: Maintenance personnel, electrician technicians, maintenance supervisors, foremen, industrial hygienists and facility managers & engineers.

**Course Length:** 3 days

Continuing Education Units: not available

**Objectives:** The primary objective of this course is to provide attendees with an understanding of the fundamentals of heating, ventilation, and air-conditioning. Upon completing this course attendees will understand

- Basic heating, ventilation, and air-conditioning processes
- HVAC system impacts on comfort, productivity, and indoor air quality
- HVAC system types (including advantages and disadvantages)
- HVAC applications in a healthcare environment
- Overview of commissioning and its role in delivering quality mechanical systems
- Basic field evaluation techniques using equipment such as smoke guns, hand-held temperature/rh equipment, and hand-held digital manometers

Date and Location: December 6-8, 2004 Anchorage, AK

# **DIRECT DIGITAL CONTROLS (DDC) FOR HVAC: (44600)**

This five-day course provides students with in-depth information on the Direct Digital Controls (DDC) systems available today. In addition, students learn how DDC systems operate, how to utilize DDC for a variety of input/output devices and how to achieve optimum control strategies and energy management objectives. Students will also learn DDC programming concepts and how to use DDC for system diagnostics.

**Who should attend:** Maintenance personnel, HVAC & electrician technicians, maintenance supervisors, foremen, facility managers, design, electrical, and mechanical engineers.

**Course Length:** 5 days

**Continuing Education Units:** 4.0

**Objectives:** 

- Expand knowledge base of DDC systems design and selection for control of building HVAC processes
- Effectively operate and maintain DDC systems

• Effect cost-effective control

Date and Location: February 22-24, 2005 Anchorage, AK

#### COMMISSIONING OF HVAC SYSTEMS: (45600)

This 5-day course provides the technical skills necessary to commission HVAC and control systems in commercial buildings. The course combines focused classroom training with hands-on lab sessions. Systems to be commissioned include device level testing for sensors and actuators, component level testing for coils, fans, pumps, dampers, and valves, terminal units testing for VAV boxes and coil units, air handling units, hydronic systems, and primary equipment. Live DDC workstations will be used for DDC system front-end setup, graphics, trending and alarming functions.

**Who should attend:** Design, electrical, & mechanical engineers, facility managers, HVAC technicians, and maintenance supervisors.

**Course Length:** 5 days

**Continuing Education Units:** 4.0

**Objectives:** 

- Learn how to perform functional performance testing on your building systems
- Build your expertise in the area of testing, diagnosing and optimizing the performance of building HVAC systems
- Expand your technical skills for commissioning HVAC and control systems

Date and Location: Not offered in fiscal year 2005

# **HEALTH SYSTEMS PLANNING: (44000)**

This 3-day course covers the Health Systems Planning (HSP), the IHS space criteria for designing health care facilities, discussion of the various templates (clinical space modules) used in IHS when designing healthcare construction, Program Justification Document (PJD) / Program of Requirement Document (POR), estimating new activation costs, and funding utilization. Approximately one-day is RRM calculations and the impacts on the HSP module.

Who should attend: IHS Area planners, Area Facilities staff, tribal staff, and tribal consultants.

**Course Length: 3** days

**Continuing Education Units:** Not available

**Objectives:** 

• To understand the HSP process, background, and goals

• Become familiar with the HSP process software

• Develop a complete PJD and POR for a project

• Understand the ramifications of RRM

Date and Location: October 19-21, 2005 Nashville, TN

# BASIC PLAN REVIEW FOR HEALTH CARE FACILITIES: (47000)

This course will provide the basic principles of plan review for means of egress and fire protection. The course covers plans and specification content, typical drawing conventions, architectural symbols, detail and section symbols, as well as code information, the "how-to" of performing a plan review, and how not to "miss" important egress and fire protection features. The plan review instruction will be based on the NFPA Life Safety Code, and it is assumed that attendees have some knowledge of the code. Each student will receive the latest version of the Life Safety Code.

Who should attend: Design architects and engineers, facility engineers and managers, environmental health specialists and tribal sanitarians that conduct plan reviews or comprehensive Life Safety surveys.

**Course Length:** 3 days

Continuing Education Units: not available

**Objectives:** 

- Develop a basic understanding of the latest NFPA Life Safety Code
- Apply basic principles of the NFPA Life Safety Code while conducting plan reviews

Date and Location: April 26-28, 2005 Seattle, WA

# CONTROL OF INFECTIOUS AGENTS THROUGH BUILDING DESIGN: (47100)



Healthcare professionals and healthcare facility planners and managers know that effective control of infectious agents and other contaminants in healthcare facilities is critically important. In U.S. healthcare institutions alone, some 2 million cases of infections occur each year with thousands of patients dying. The recent outbreak of SARS, concerns about mold, and the appearance of other little-understood, elusive microbes highlight the seriousness of the situation. This practical, multidisciplinary course will address these concerns. The course will present techniques that healthcare administrators, facility planners, consulting engineers or infection control specialists can use to gain proficiency in infection control.

Who should attend: Area planners, facility engineers, facility managers, supervisors, staff

engineers, and Branch Chiefs. Course Length: 2 days

**Continuing Education Units:** 1.6 CEU

**Objectives:** 

- Describe the contaminants that endanger patients and healthcare workers
- Discuss infection control risk assessment
- Explain AIA, CDC, JCAHO guidelines and recommendations
- Outline procedures for control of airborne and contact-spread infectious agents
- Discuss water contamination prevention
- Discuss importance of space planning to minimize spread of contaminants
- Present methods for controlling contaminants during renovation
- Discuss emergency response procedures related to contaminant control

Date and Location: January 26-27, 2005 Seattle, WA

# MP2 MANAGEMENT SYSTEM: (48000)

This course covers the use of the MP2 software system for the day-to-day preventative maintenance and upkeep of healthcare facilities. It will provide an explanation of the importance of efficient work order procedures to effectively maintain health care facilities. Also provided will be step by step instructions on proper methods of work order utilization and follow up to ensure maintenance is being performed effectively and efficiently.

**Who should attend:** Maintenance personnel, electrician & plumber technicians, maintenance supervisors, foremen, and facility managers.

**Course Length:** 3 days

**Continuing Education Units:** not available

**Objectives:** 

- Understanding the MPs management system
- Understanding your role and responsibility under the MP2 system

Date and Location: Not offered in fiscal year 2005

# FACILITIES DATA SYSTEMS: (44100)

This course is presented by the Facilities Program Development Branch, Headquarters, and provides an overview of the data systems utilized by the Division of Facilities Management. This training is recommended for staff having responsibility for data entry and review of FDS and BEMARS information on behalf of their respective facility and Area. The training will be "taken to the field" so that employees' opportunity for training is increased.

Who should attend: Area planners, facility engineers, facility managers, supervisors, staff

engineers, and Branch Chiefs. **Course Length:** 3 days

Continuing Education Units: not available

**Objectives:** 

• Learn how to input data into the Facilities Data System

• Learn to utilize the updated version of the Facilities Data System

Date and Location: March 1-3, 2005 Phoenix, AZ

# HEALTH FACILITIES DATA SYSTEM & ASSET MANAGEMENT: (44160)

This course provides an overview of the Health Facilities Data System and a discussion of current topics in asset management. Presentation of material will be interspersed with hands-on computer practice sessions. Attendees will be provided a current review of facility data base operations and their implementation within the facilities management program.

Who should attend: Area planners, facility engineers, facility managers, supervisors, staff

engineers, and Branch Chiefs. Course Length: 3 days

Continuing Education Units: Not available

**Objectives:** 

• Discussion of FEDS/Deferred Maintenance

• Overview of environmental liabilities

• Discussion of energy issues

Date and Location: October 26-28, 2004 Albuquerque, NM

December 14-16, 2004 Minneapolis, MN
January 4-6, 2005 Oklahoma City, OK
February 8-10, 2005 Phoenix, AZ

March 29-31, 2005 Seattle, WA

# FACILITIES DESIGN-BUILD: (44300)



This course is intended to present the fundamentals of the design-build process by focusing on the importance of integrated approaches to project delivery and interdisciplinary cooperation. Industry professionals experienced in the design-build process teach the course.

**Who should attend:** Area planners, facility engineers, facility managers, supervisors, staff engineers, and Branch Chiefs.

**Course Length:** 3 days

**Continuing Education Units:** 2.4 CEU

**Objectives:** 

- Explain the history and evolution of the project delivery system and define project delivery system terms.
- Explain how to determine the facility's business goals and the facility owner's profile and how these affect the project's chances of success
- Explain the procurement is, describe the various procurement methods, and explain how to choose the procurement method bested suited for a given project.
- Describe the framework for project delivery, including major owner decisions, business goals, selecting a procurement method and project team, and steps in acquisition.

Date and Location: April 19-21, 2005 Albuquerque, NM

## **CONTRACTING OFFICER TECHNICAL REPRESENTATIVE: (44350)**



This course provides the experienced COR/COTR with an update and review of the acquisition process. It is suitable for experienced personnel who have previously attended acquisition training and who are charged with oversight and inspection of government construction projects. The course examines the government construction contract process with specific attention to changes in contract clauses, regulations and legal decisions affecting contract administration duties.

Who should attend: Area facility engineers, facility managers, supervisors, staff engineers, and construction inspectors.

Course Length: 3 days

**Continuing Education Units:** 2.4 CEUs

**Objectives:** 

- Provide and overview of the government procurement process
- Discuss the responsibilities of a contracting officer's technical representative
- Discuss potential liability concerns as a COTR
- Provide an overview of changes as they relate to government contracts
- Discuss the importance of documentation in COTR responsibilities
- Discuss legal issues and preparation for court testimony
- Discuss COTR responsibilities with respect to codes and ordinances

Date and Location: September 12-16, 2005 Minneapolis, MN

#### ASSETS MANAGEMENT: (44150)

This course is presented by the Facilities Program Development Branch, Headquarters, and provides specific training on the HFDS Projects Module. It is intended that the students will have a better understanding of CIP impacts on the entire processing of documents related to construction, property inventories, beneficial occupancy, and final closeout.

**Who should attend:** Area planners, facility engineers, facility managers, supervisors, staff engineers, and Branch Chiefs.

**Course Length:** 3 days

Length. 5 days

Continuing Education Units: not available

**Objectives:** 

• Learn how to input data into the Projects Module

- Understand the relationship between CIP and Real Property Inventories and data
- Learn the disposition of documents related to CIP and Real Property

Date and Location: Not offered in fiscal year 2005

# **COST ESTIMATING: (44100)**

This course covers the RS Means programs for estimating new, renovated, and repair projects. The course is structured so students have the opportunity to learn several different Means modules. Modules include Repair & Remodeling, Unit Price, Square Foot, and Facilities Maintenance & Repair Estimating. Students will achieve a thorough and complete understanding of the Means cost data, including material, labor and equipment costs, productivity and crews. Students will learn to analyze and apply factors that impact project costs, regardless of type of construction, geographic area, weather, or other special circumstances surrounding the proposed project.

**Who should attend:** Design, Mechanical, Electrical and Project Engineers

**Course Length:** 4 days

Continuing Education Units: not available

**Objectives:** 

- Learn standard industry methods for estimating new construction, additions, and renovations
- Learn several different estimating methods (unit price, square foot, etc.)

Date and Location: Not offered in fiscal year 2005